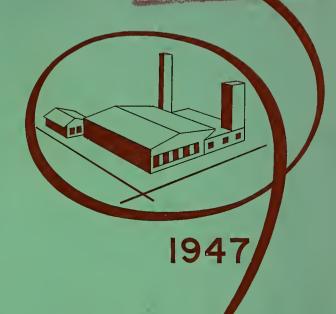


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GROWTH OF MANUFACTURES IN MARYLAND



1939

1921

1929

MARYLAND STATE PLANNING COMMISSION



AUGUST 1950



GROWTH OF MANUFACTURES IN MARYLAND 1921 - 1947

MARYLAND STATE PLANNING COMMISSION

MARCH 1951

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> MARYLAND STATE PLANNING COMMISSION 100 Equitable Building Baltimore 2, Maryland





100 Equitable Building Baltimore 2, Maryland GARRETT O. BILLMIRE
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JOHN B. FUNK
Chairman

i. ALVIN PASAREW

March 15, 1951

Mr. John B. Funk, Chairman Maryland State Planning Commission Baltimore 2. Maryland

Dear Mr. Funk:

I am pleased to transmit herewith a study of the Commission's staff called: "Growth of Manufactures in Maryland, 1921 - 1947."

Continuing the series of reports surveying the economic development and industrial progress of the State, which the Commission has undertaken in the past, the present study analyses the growth of industry in Maryland. The years 1921 - 1947 include the worst depression in the nation's history, as well as the greatest military effort of the country; therefore it was possible to assess the effects of severe strain on Maryland's economy.

In order to arrive at a clear picture of the State's industrial development it would have been most helpful if data were available on a yearly basis. As it is however, the study dealt with figures applying only to 1921, 1929, 1939, and 1947. In effect this resulted in taking a sample of Maryland's economy during the indicated years, surmising about changes which occurred in the intervening years.

In spite of the limitations of the data the results definitely showed that manufactures in the State have grown considerably, value added by manufacture in Maryland increasing more rapidly than the country as a whole. The figures further indicate that the State weathered the depression better than the nation since the number of production workers and value added by manufacture in Maryland increased steadily during the entire period under review, while the nation showed a drop in both of these factors during the period from 1929 - 1939.

By pointing out the areas of strength in the manufacturing industry in the State, as well as indicating the areas that might be improved, the study indicates that Maryland may well be proud of its accomplishments although there is still further industrial potential that can be utilized.

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Very truly yours,

I. Alvin Pasarew

Director

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MARYLAND STATE PLANNING COMMISSION

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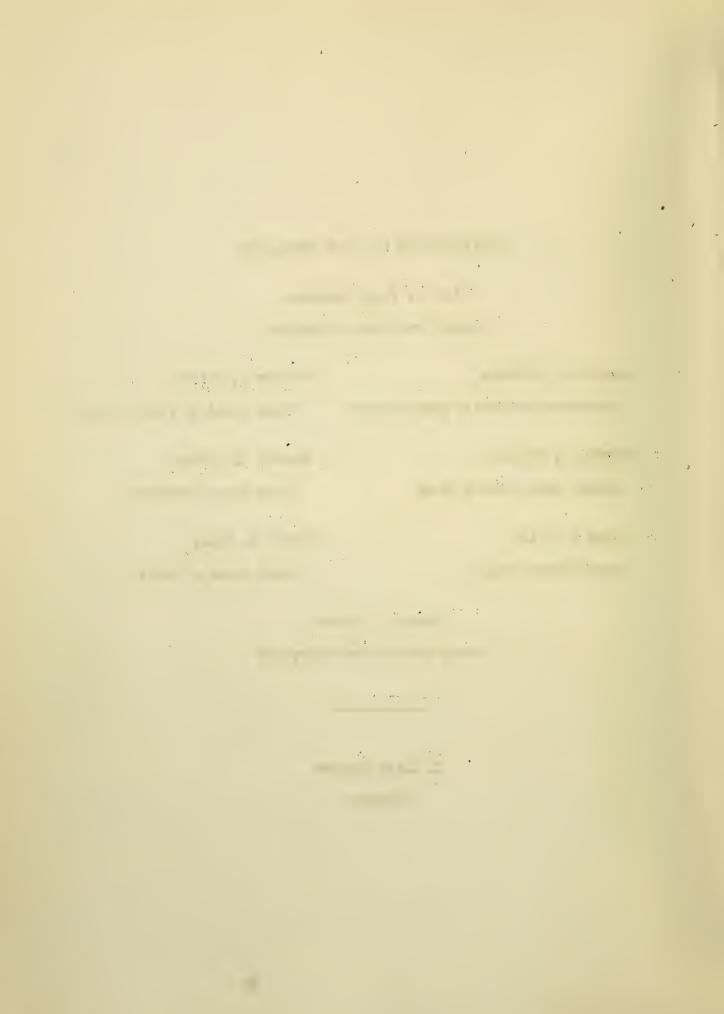


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INTRODUCTION

The Maryland State Planning Commission is authorized to:
"Collect and publish information relating to welfare problems affecting
the people of the State of Maryland . . ."

Within this framework, the Commission has published many studies of the economic and industrial life of Maryland. Among these are: Economic Studies of Maryland (in <u>six</u> parts); Report on Wholesale Market Facilities for Greater Baltimore; A Survey of the Impact of F.O.B. Mill Pricing on Maryland Manufacturers; and studies on the men's clothing industry, the fertilizer industry, and the iron and steel industry in the State.

This study, which is an analysis of past Censuses of Manufactures, with particular emphasis upon the Census of 1947, belongs to this group of economic studies.

CHAPTER I

BACKGROUND AND FINDINGS

Definitions

The first Census of Manufactures was undertaken in 1809 and was taken decennially thereafter until 1899, with the exception of 1829. It was conducted at five year intervals from 1904 through 1919 and biennially from 1921 through 1939. The Census of Manufactures of 1947 is the most recent census, which covers manufacturing activity in the 48 states and the District of Columbia.

This study deals primarily with comparisons of data for the following economic factors: number of establishments, average number of production workers, wages paid to these workers and value added by manufacture.

The term "establishment" signifies a simple plant or factory. It does not necessarily refer to a business unit or company, which may consist of several establishments. The general explanations of the 1947 Census of Manufactures states that if a company operates establishments at more than one location, it is required to submit reports for each location. Also, if companies engage in distinctly different lines of activity at one location they are required to submit separate reports if separate company records are available.

"Production workers" include "working foremen and all nonsupervisory workers (including leadmen and trainees) engaged in fabricating, handling, packing, warehousing, shipping, maintenance, repair,
janitorial and watchman services, product development, auxiliary production for plant's own use (e.g. power plant), record-keeping, and
other services closely associated with these production operations."

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professional variables

"Wages" are defined as "the gross earnings of employees, including commissions, dismissal pay, non-production bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds."

"Value added by manufacture," according to the Bureau of the Census, ". . . approximates the value created in the process of manufacture \(\sqrt{and} \) value added provides the most satisfactory measure of the relative economic importance of given industries available in the Census of Manufactures." Value added by manufacture "is calculated by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the total value of shipments."

Although the primary analysis employed in this study is a comparison of the trends in Maryland with that of the U.S., for the four factors listed above, other pertinent analyses were also employed. Among these are the following:

- 1) A comparison of Maryland's relative standing as compared to the U. S. for each of the four factors
- 2) A comparison of Maryland with other leading states on the respective factors
- 3) Percentage of population employed as production workers
- 4) Comparing Maryland's leading industries with these industries in other states
- 5) Change in importance in Maryland's leading industries and industry groups
- 6) Analysis of the average number of workers per establishment.

These measurements are valuable in determining various inter and intra-state relationships. Some questions which might be answered

are the following: Are Maryland's manufacturing firms larger or smaller than the average? What is the change in size since 1921? How does the fertilizer industry in Maryland compare with this industry in other states? How much of the nation's value added by manufacture was added by Maryland in certain years?

The Census of Manufactures provides statistics of manufacturing activity that are arranged by geographical area and by industry classification. Geographically the statistics are presented for:

- I. The United States
 - A. The Division (Middle Atlantic, Etc.)
 - 1. The State
 - a. The County
 - b. The standard Metropolitan Area

Industry-wise the Census follows the Standard Industrial Classification Code of the Bureau of the Budget with only a few minor exceptions. This code divides the manufacturing industry into:

- I. The Major Industry Group (such as Food and Kindred Products)
 - A. The Subgroup (such as, Dairy Products)
 - 1. The Industry (such as, natural cheese)

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. Statistics, except number of establishment which is always shown, are withheld for less than three companies. Value figures are shown for three or more firms unless one or two of the companies produce a large proportion of the total value. Care is taken to prevent disclosure by subtraction, e.g. subtraction of the statistics shown for an industry in a city from the statistics for the county of which the city is a part, thus disclosing

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data for one or two industries in the county.

Major industry groups and industry subgroups were not shown by state in the Censuses of 1921, 1929 and 1939. For 1939, however, the Census was reclassified by the Bureau of the Census for comparison with the 1947 Census of Manufactures. The study has, in addition, reclassified some of the data of the Censuses of 1921 and 1929 for use in comparing these earlier years with 1947. While the comparability of the industry groups in the earlier years with the industry groups of 1947 may not be completely accurate, the error is so slight as to have little effect upon the trends developed in this study.

The major industry groups in this study have been grouped into two broad categories; durable and non-durable goods producing industries. The concept of durable and non-durable industries is familiar enough to require no definition. However, while the existence of many borderline cases is admitted, the basic difference between these two classes of industry depends upon the relative time required to consume the goods produced by the industry. The accepted classification of industry groups into durable and non-durable categories lists the following industry groups in the former:

Lumber and Lumber Products (except Furniture)
Furniture and Fixtures
Stone, Clay and Glass Products
Primary Metals Industries
Fabricated Metal Products
Machinery (except electrical)
Electrical Machinery
Transportation Equipment
Instruments and Related Products
Miscellaneous Manufactures

Non-durable Industry Groups are as follows:

Food and Kindred Products
Tobacco Manufactures
Textile Mill Products

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Non-durable industry groups (Contd.)

Apparel and Related Products
Paper and Allied Products
Printing and Publishing Industries
Chemicals and Allied Products
Petroleum and Coal Products
Rubber Products
Leather and Leather Products



Summary of Findings

This study represents an analysis of the statistics of the Census of Manufactures of 1947, and in the light of data from earlier censuses indicates trends in Maryland's economic development. In general the study finds that:

- 1. The manufacturing industry in Maryland weathered the depression more successfully than did the average manufacturer on a nationwide basis.
- 2. The durable industries are providing the stabilizing economic base in Maryland in times of declining business activity.
- 3. The value added by manufacture per production worker in Maryland is greater than in some other states which in 1947 produced a greater total value added than did Maryland.
- 4. Maryland is slightly above the national average of 8.3% of the population employed as production workers in manufacturing;
 8.5% of Maryland's population is so employed.
- 5. The manufacturing industry is concentrated in the Baltimore

 Metropolitan Area but Washington and Allegany Counties also

 contribute a significant portion of the manufactures produced
 in the State.
- 6. Comparing the rates of growth of different industry groups in the State with the same groups in the nation as a whole, it is evident that the most rapid rates of growth took place in the following industry groups: Primary Metals, Transportation Equipment, and Electrical Machinery.
- 7. The durable goods producing industries have been increasing in importance. Of these the Primary Metals Industry has made

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- the greatest strides since 1921, and the future expansion of the steel industry in the State should provide employment for a great many additional workers.
- 8. Maryland ranks high in the nation's production of the following products: fertilizer; tin cans and tinware; scientific
 instruments; umbrellas, parasols, and canes; men's and boys'
 clothing; ships and boats; brooms and brushes; and iron and
 steel.

With the great number of variations and developments in the economic life of the country and the State during the period 1921-1947, it is unfortunate that a complete record of annual changes is not available. The best that can be done, however, is to obtain an indication of the changes from one census to the rext. This results in a sampling of economic development every few years. It is in this manner that the growth of manufactures in Maryland will be investigated.

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CHAPTER II

THE MANUFACTURING INDUSTRY IN MARYLAND

Changes in U. S. Manufacturing

With 1921 as a base year equaling 100, the index of value added by manufacture in the U. S. rose to 179 in 1929, dropped to 142 in 1939 and in 1947 reached 432. The index of the number of establishments engaged in manufacturing, however, rose to only 114 in 1929, fell to 91 in 1939 and reached 139 in 1947. During this period the index of wages paid to production workers rose to 409 in 1947 while the number of production workers nearly doubled, the index standing at 186 in 1947.

The national pattern is one of an increasing number of production workers, rising wages and value added by manufacture. The fact that the number of establishments did not increase as rapidly as did the number of production workers, amount of wages and value added by manufacture, tends to show an increasing size of manufacturing unit. It is true that changes in the value of the dollar exagerate the effects of wage increases and value added by manufacture, nevertheless changes in the value of money have not been as great as the changes in wages and value added by manufacture, indicating a real change in these factors over the years.

Variation in this pattern of growth was evidenced during the depression years of the 30's. While the crucial years of the depression are now shown in this study, recovery was not yet complete in 1939 and the data for that year reflect conditions during the depression years. These figures show that the greatest decrease during the depression was in the number of establishments engaged in manufacturing. While wages, number of production workers and value added by manufacture fell below the 1929 level, they, nevertheless, showed a slight increase above 1921, itself a year of mild

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depression. The number of establishments, however was smaller than in 1929 and also fell below the number of firms operating in the country in 1921. This difference in relative changes in number of establishments and number of workers indicates that the depression, much like the influenza epidemic of 1918, wiped out the weaker members of the population. The firms that failed were those least able to meet competition in an extended buyers market, as well as those with insufficient financial resources to operate at a loss over an extended period. This process left the strong and healthy to continue in the recovery period. Generally, the eliminated firms were the smaller establishments for the average size of establishment increased during the period 1921-1947.

The non-durable industries on a nation-wide basis were, as a group, more stable than were the durable industries. Durable industry was subject to more accentuated fluctuations, attaining higher peaks and lower troughs during the various cyclical variations in business. During the same period the non-durable industries exhibited a tendency toward stable amplitude variation during peak and trough periods. Despite the set backs suffered in the thirties, however, the long term picture was one of growth in all categories: number of manufacturing establishments, number of production workers, wages paid to these workers, value added by manufacture, and in the average size of establishment.

Comparison of Maryland with U.S.

Indexes for Maryland industries exhibit a pattern similar to that for the nation as a whole, but extreme variations are not as prevalent. Thus, while the various indexes of manufacturing activity in the U. S. show a decline in 1939 the same indexes for Maryland's manufacturing industry show a slight increase over 1929. This would also indicate that Maryland manu-

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facturing weathered the depression better than the country in general.

Tables 18 and 19 in the appendix show these indexes.

When these indexes of total manufacturing activity are broken down into indexes of durable and non-durable manufacturing, the relative stability of the non-durable industries for the U.S. is apparent. The Maryland durable goods industries exhibit a steady growth through 1939 rising rapidly in 1947. Table 1 compares the indexes of the number of production workers and value added by manufacture for the United States and Maryland for the census years between 1921 and 1947. Tables 2 and 3 show the same comparisons but are further divided into durable and non-durable industries.

TABLE 1

INDEXES OF

NUMBER OF PRODUCTION WORKERS AND VALUE ADDED BY MANUFACTURE

FOR MARYLAND AND THE UNITED STATES

Selected	Years,	, 1921-1947
)21 = i	

	Number of Produc	tion Workers	Value Added by	Manufacture
	United States	<u>Maryland</u>	United States	Maryland
1921	100.0	100.0	100,0	100.0
1929	144.3	122.3	179.4	168.2
1939	122,0	132.1	142.3	171.0
1947	186.2.	176.8	432.1	462.8

TABLE 2

INDEXES OF

NUMBER OF PRODUCTION WORKERS

BY DURABLE AND NON-DURABLE GOODS INDUSTRIES

FOR MARYLAND AND THE UNITED STATES

Selected Years, 1921-1947 (1921 = 100)

	Durable	Industries	Non-Durable	Industries
	United States	Maryland	United States	<u>Maryland</u>
1921	100.0	100.0	100.0	100.0
1929	175.1	116.8	117.8	126.5
1939	123.8	140.7	120.5	125.9
1947	222.2	222.8	155.3	143.2

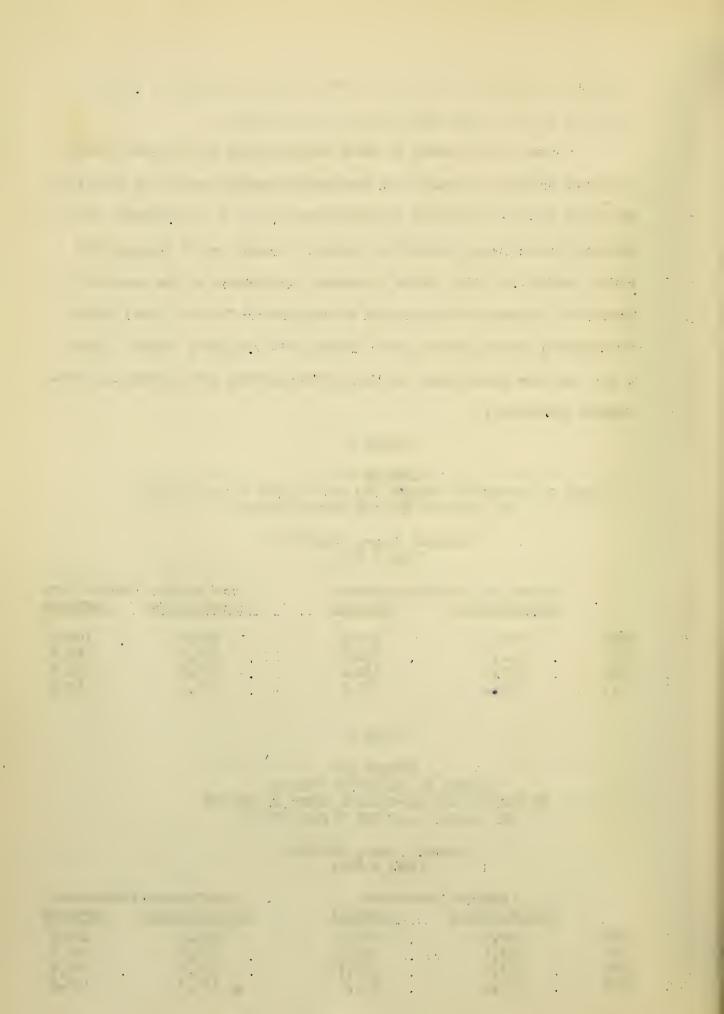


TABLE 3

INDEXES OF VALUE ADDED BY MANUFACTURE BY DURABLE AND NON-DURABLE GOODS INDUSTRIES FOR MARYLAND AND THE UNITED STATES

Selected Years, 1921-1947 (1921 = 100)

	Durable <u>United States</u>	Industries <u>Maryland</u>	Non-Durable Ind <u>United States</u>	nstries <u>Maryland</u>
1921	100.0	100.0	100.0	100.0
1929	235.1	175.3	135.8	164.1
1939	150.1	216.1	136.2	140.1
1947	500,4	600.0	379.1	380.9

The figures on the durable and non-durable industries for Maryland and the United States yield some very interesting relationships. First of all there is a complete reversal of the role of durable (and non-durable) industry for Maryland as compared to the rest of the nation. The data on production workers and value added by manufacture show that in the United States the durable industries decreased from 1929 to 1939 while the non-durable industries showed an increase in each census year. For Maryland the opposite was true: the durable industries increased at every census in the number of production workers and value added by manufacture while the effect of the depression years was evident in the decrease from 1929 to 1939 in the non-durable industries.

It would seem that in Maryland the durable industries are providing the stabilizing economic base in times of economic decline. For the
country as a whole the non-durable industries perform this function. The
reasons for this reversal of pattern are very difficult to ascertain but
some deductions are possible. First of all the durable industry in Maryland
is diversified and, secondly, the firms in the durable industries are large
and stabilized. It is evident from Table 6 that Maryland firms in the

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durable industries had substantially more production workers than the country as a whole for every census year except 1929.

The non-durable firms, on the other hand, have followed rather closely the pattern for the United States in the number of employees. This would tend to make the non-durable firms more susceptible than the durable industry to the dangers of cyclical fluctuation. In this connection it is interesting to note Table 4 which indicates that the smallest firms in Maryland have shown a decrease from 1929 in both 1939 and 1947 while the number of the largest size firms increased most during these years. It is thus evident that the mortality rate is greatest for the smallest firms. In addition to the fact that the firms in the non-durable field in Maryland were small, they also were in an exposed position due to the expansion program of these firms in the prosperity period. Note that the number of production workers and the value added by manufacture in the non-durable industries in Maryland definitely exceeded the increase for the United States in 1929. The combination of the above factors led to the decrease in the number of production workers and value added by manufacture in 1939 in Maryland while for the United States the corresponding figures showed increases.

In the number of establishments, Maryland showed a decrease between 1921 and 1947. Maryland manufacturing firms declined as shown in Table 5 to 90.5% of 1921 while establishments in the United States increased to 126.3% of 1921. The number of establishments engaged in non-durable goods manufacturing declined while the number of durable goods producers showed an increase over 1921 of 82.4% and 109.6% respectively. A similar pattern was set in the United States where the number of durable manufacturing companies in the nation experienced a larger increase over 1921 than did the non-durable goods manufacturers, 162.5% and 106.4%.

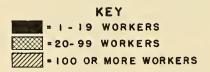
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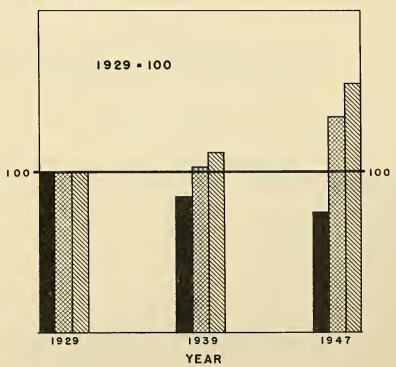
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CHANGE IN NUMBER OF FIRMS IN MARYLAND BY SIZE OF ESTABLISHMENT SELECTED YEARS, 1929-1947



INDEX OF NUMBER OF ESTABLISHMENTS



SIZE OF ESTABLISHMENT	NUMBER OF ESTABLISHMENTS
BY NUMBER OF WORKERS	YEAR
	1929 1939 1947
1-19 WORKERS	2226 1839 1628
20-99 WORKERS	634 649 848
100 OR MORE WORKERS	227 253 349



TABLE 4

CHANGE IN THE NUMBER OF ESTABLISHMENTS
BY SIZE OF ESTABLISHMENT

MARYLAND, 1929-1947

	1929	193	9	194	7
Number Of	Number Of	Number Of	Percent	Number of	Percent
Wage Earners	<u>Establishments</u>	Establishments	of 1929	<u>Establishments</u>	of 1929
3.00	0.00/	3 400	dod	7 600	ಇಂ ಡ
1-20	2,226	1,839	83%	1,628	73%
21-100	634	649	102%	848	134%
Over 100	227	253	111%	349	154%

TABLE 5

INDEXES OF NUMBER OF ESTABLISHMENTS BY DURABLE AND NON-DURABLE GOODS INDUSTRIES FOR MARYLAND AND THE UNITED STATES

Selected Years, 1921-1947 (1921 = 100)

	Durable Indu	stries	Non-Durable In	dustries	Tot	al
	United States	<u>Maryland</u>	United States	Maryland	United States	Maryland
1921	100.0	100.0	100.0	100.0	100.0	100.0
1929	124.4	97.2	108.0	105.8	113.9	103.2
1939	89.1	83.4	92.3	88.5	91.2	86.9
1947	162.5	109.6	106.4	82.4	126.3	90.5

TABLE 6

AVERAGE NUMBER OF PRODUCTION WORKERS PER MANUFACTURING ESTABLISH ENTS

Selected Years, 1921-1947

	Durable Indu	stries	Non-Durable In	dustries	Tot	al
	United States	Maryland	United States	Maryland	United States	Maryland
1921	43.6	48.2	28.0	28.2	33.6	34.2
1929	61.4	57 . 9	28.4	33.7	40.7	40.5
1939	60.6	81.3	36.6	40.1	44.9	52.0
1947	59.7	102.4	40.9	49.0	49.5	66.8

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The more rapid increase of the number of production workers and value added by manufacture as compared with the growth in number of establishments has resulted in larger sized firms. Note that Table 6 bears this out. The same results are shown in Table 4 where it is indicated that the number of larger firms is increasing while the number of small manufacturing firms is decreasing

While the size of Maryland non-durable goods manufacturers kept pace with the national average, size of Maryland durable goods producers was nearly double that of the United States in 1947 and exceeded the nation-wide average in 1921 and 1939. This large difference is due to the influence of three industries: The primary metals industry group, the electrical machinery group and the transportation equipment group. Table 20 in the Appendix lists the average size of establishment for the United States and Maryland by industry groups.

Maryland's share of total number of establishments, total number of production workers, total wages paid and total value added by manufacture fluctuated around 1.5% for the four years studied. The number of establishments engaged in manufacturing in Maryland declined from 1.6% of the total number in the nation in 1921 to 1.2% of the United States in 1947. Maryland's share of production workers dropped slightly from 1.7% in 1921 to 1.6% in 1947, with a low of 1.4% in 1929; while wages paid to production workers stood at 1.5% both in 1921 and 1947. In the interim, value added by manufacture rose 0.1% from 1.4% to 1.5%, reaching a peak of 1.7% in 1939. Tables 7 through 10 illustrate these various percentages. Tables 21 through 24 in the Appendix shows the same relationship by industry groups.

TABLE 7

MARYLAND'S SHARE OF MANUFACTURING ESTABLISHMENTS
IN THE UNITED STATES

Selected Years, 1921-1947

	Number of Manufacturing <u>United States</u>	Establishments <u>Maryland</u>	Percent of United States
1921	190,657	3,120	1.6
1929	217,078	3,220	1.5
1939	173,802	2,712	1.6
1947	240,801	2,825	1.2

TABLE 8

MARYLAND'S SHARE OF PRODUCTION WORKERS IN THE UNITED STATES

Selected Years, 1921-1947

	Number of Froduction Workers		Percent of
	<u>United States</u>	Maryland	United States
1921	6,400,000	106,692	1.7
1929	9,233,000	130,534	1.4
1939	7,808,000	140,930	1.8
1947	11,918,000	188,639	1.6

TABLE 9

MARYLAND'S SHARE OF WAGES PAID TO PRODUCTION WORKERS IN THE UNITED STATES

Selected Years, 1921-1947

	Wages to Produc	tion Workers	Percent of
	United States	<u>Maryland</u>	United States
1921	\$ 7,388,000,000	\$ 110,761,000	1.5
1929	12,207,000,000	148,021,000	1.2
1939			cm.
1947	30,248,000,000	457,704,000	1.5

TABLE 10

MARYLAND'S SHARE OF VALUE ADDED BY MANUFACTURE
IN THE UNITED STATES

Selected Years, 1921-1947

	Value Added by <u>United States</u>	Manufacture <u>Maryland</u>	Percent of United States
1921	\$ 17,210,000,000	\$ 245,998,000	1.4
1929	30,868,000,000	413,803,000	1.3
1939	24,487,000,000	420,589,000	1.7
1947	74,364,000,000	1,138,407,000	1.5

Comparison of Maryland with Other States

With 141,000 production workers employed in 1939, Maryland ranked 15th among the forty-eight states and District of Columbia. Despite an absolute increase of 48,000 workers the State was surpassed by three other states in 1947 pushing Maryland down to 18th place. Maryland moved from 18th to 23rd place between 1939 and 1947 when ranked according to the number of establishments. This was due to the fact that the rate of increase for the United States was greater than Maryland's. The State maintained its place as 15th among the states in value added by manufacture. Tables 25, 26 and 27 in the Appendix show Maryland's relative position among the other states in 1939 and 1947.

The value added per production workers in Maryland was greater than in some other states with greater total value added by manufacture.

This is indicated by the fact that Maryland maintained its standing with respect to value added by manufacture but lost standing in number of production workers.

Among the twenty states having the largest amounts of value added by manufacture, Maryland ranked 11th in value added per production worker as shown in Table 11.

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TABLE 11

VALUE ADDED BY MANUFACTURE PER PRODUCTION WORKER
FOR THE TWENTY STATES LEADING IN
VALUE ADDED BY MANUFACTURE

State Va	lue added by Manufacture	Rank	Value Added Per Production Worker	Rank
New York	\$ 9,666,588,000	1.	\$ 6,780	6
Pennsylvania	6,946,958,000	2	5,700	14
Illinois	6,680,137,000	3	7,000	4
Ohio	6,359,006,000	4	6,430	9
Michigan	5,196,338,000	5	6,320	10
New Jersey	4,177,080,000	6	6,940	5
California	3,994,981,000	7	7,530	1
Massachusetts	3,370,094,000	8	5,600	15
Indiana Wisconsin Connecticut	2,977,508,000	9	6,510	8
	2,260,574,000	10	6,590	7
	1,896,546,000	11	5,720	13
Texas	1,727,464,000	12	7,140	2
North Carolina	1,646,673,000	13	4,700	19
Missouri	1,623,145,000	14	6,020	12
MARYLAND	1,138,407,000	15	<u>6,030</u>	11
Virginia	1,051,629,000	16	5,530	16
Minnesota	1,022,586,000	17	7,040	3
Georgia	1,015,999,000	18	4,500	20
Tennessee	957,339,000	19	4,980	17
Alabama United States	\$76,933,000 \$ 74,425,825,000	20	4,720 \$ 6,250	18

Production workers engaged in manufacturing activities in the
United States represented 8.3% of the total population in 1947. Rhode Island,
with 16.8% of its population employed as production workers in manufacturing
industries, leads the nation with the highest ratio of these workers to population. Following Rhode Island are Connecticut, 16.4%; New Jersey, 13.5%;
Michigan, 13.1%; and Ohio, 12.7%. Maryland closely approximates the national
average with 8.5% of its population engaged as production workers, and ranks
18th among the states. Table 12 lists the twenty states highest in percentage of production workers to population.

TABLE 12
STATES WITH THE HIGHEST PERCENTAGES OF POPULATION EMPLOYED AS PRODUCTION WORKERS, 1947

<u>State</u>	Percentage of Population Employed as Production Workers 1/	Rank
Rhode Island	16,8	1
Connecticut	16.4	2
New Jersey	13.5	3
Michigan	13.1	4
Ohio	12.7	5
Massachusetts	12,6	6
New Hampshire	12.0	123456789
Pennsylvania	11.8	8
Indiana	11.7	
Texas	11.6	10
Illinois	11.5	11
Wisconsin	10.3	12
New York	10.1	13
Delaware	9.9	14
Maine	9.8	15
North Carolina	9.4	16
South Carolina	9.3	17
MARYLAND		18
Vermont	8.5 8.2	18 19
Missouri	7.0	20
United States	8•3	

Value added by manufacture totaled \$1,138,407,000 in 1947 in the State of Maryland. Of this, \$552,720,000 was value added by durable goods producing industries and \$585,687,000 by non-durable goods manufacturers. Thus in 1947, the relative shares of total value added were fairly equally distributed between the durable and non-durable goods producers. The non-durable goods industries have been contributing a larger share of total value added by manufacture in the State but, as may be seen in Table 13, the gap between them has been narrowing.

^{1/} Percentages derived from average monthly employment in 1947 as shown in 1947 Census of Manufactures and population estimate as of January 1, 1948 of Sales Management.

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TABLE 13

ALLOCATION OF TOTAL VALUE ADDED BY MANUFACTURE BETWEEN DURABLE AND NON-DURABLE INDUSTRIES, MARYLAND

Sotoo For	Voora	1921-1947	
Serected	rears.	. 1921-1947	

	1921	1929	1939	1947
Durable Goods	37.4%	39.0%	47.3%	48.6%
Non-Durable Goods	62.5	61.0	52.7	51.4
TOTAL	100.0	100.0	100.0	100.0

Leading Industries in Maryland

Using value added by manufacture as a means of measurement, Mary-land's five leading industry groups in 1947 were the Food and Kindred Products, Primary Metals, Transportation Equipment, Chemicals and Allied Products, and Apparel and Related Products Groups. Table 28 in the Appendix lists the leading industries for 1921, 1929, 1939, and 1947. Tables 29 and 30 show the leading durable and non-durable goods producing industries in these years.

between 1921 and 1947 the Food, Transportation Equipment, and Chemicals
Groups were most able to maintain their relative position; while the Apparel
Group suffered a decline in importance and the Printing and Publishing Industry lost its standing among the first five industry groups. During this
period the Primary Metals Industry rose to its present prominence. It
should be noted that the two declines in importance were both by non-durable
goods producing industries during a period marked by the ascent of the durable industries in importance. Examination of Table 30 listing the important
non-durable goods producing industries shows a drop from first to third
place by the Apparel Group between 1921 and 1947 and the maintenance of

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its position in fourth place by the Printing and Publishing Group. The only major change is the disappearance of the Textile Mill Products Group from among the leading five industries to be replaced by a newcomer, the Rubber Products Industry.

When the changes of distribution of total value added by manufacture in the State between 1921 and 1947 are compared, it is seen that three of the five industries showing the largest relative gain are durable industries while four of the five industries registering the greatest loss are non-durable goods producers. Table 14 shows these changes. This table also shows that with the exception of the Transportation Equipment Group. the changes of the various industries were consistent during the period. That is, each industry has constantly grown, declined or remained at the same level, in contrast to an erratic movement from period to period. The Transportation Equipment group shows a loss of 5% of total value added in 1929 but regains its old position by 1947. Between 1921 and 1929 the Primary Metal Group increased its share of total value added 10.9% and is the group that registers the most spectacular increase. Eight industries showed an increase in chare of value added in 1947 over 1921. These increases ranging from 0.2% to the 10.9% increase of Primary Metal Group. Twelve groups registered decreases of from 0.2% to 9.8%. The Apparel and Related Products Group was the group to suffer this large decline of 9.8%.

The pattern of the Primary Metal Group is interesting for this group's share increased to 7.5% in 1929 and jumped further to 17.2% in 1939 which seems to indicate that this group is relatively more stable in a depressed period than are the other industry groups in Maryland, although only one group underwent a major decline at that time. This group which is the Apparel Group, declined in share of value added from 13.7% to 8.5%

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DISTRIBUTION OF VALUE ADDED BY MANUFACTURE IN MARYLAND BY INDUSTRY GROUP 1921 AND 1947

INDUSTRY GROUP	CHANGE FROM	1921 TO 1947	1921	1947
PRIMARY METAL	+10.9%		3.1	14.0
FABRICATED METAL PRODUCTS			5.6	7.3
ELECTRICAL MACHINERY (SINCE	929) +1.7%		*	3.1
FOOD AND KINDRED PRODUCTS	+1.7%		14.3	16.0
CHEMICALS AND ALLIED PRODUCTS			11.0	12.5
RUBBER PRODUCTS (SINCE 193	+ 1.3%		*	2.4
INSTRUMENTS	+.2%		1	.3
TRANSPORTATION EQUIPMENT	+.2%		13.0	13.2
STONE, CLAY, AND GLASS PRODUCTS		2%	3.1	2.9
MISCELLANEOUS MANUFACTURES	5	3%	2.1	1.8
PAPER AND ALLIED PRODUCTS		4%	2.6	2.2
LEATHER AND LEATHER PRODUCTS		8%	1.7	.9
FURNITURE AND FIXTURES	777	-1.0%	1.9	.9
LUMBER AND LUMBER PRODUCTS		-1.6%	2.8	1.2
TOBACCO MANUFACTURES		-1.7%	1.7	ŏ
MACHINERY (EXC. ELECTRICAL)		-1.7%	5.6	3.9
TEXTILE MILL PRODUCTS		-2.2%	4.3	2.1
PETROLEUM AND COAL PRODUCTS	anning.	-2.4%	4.0	1.6
PRINTING AND PUBLISHING INDUSTRI		-2.8%	7.6	4.8
APPAREL AND RELATED PRODUCTS		-9.8%	17.7	7.9

TOTAL 100% 100%

NOTE: 0 = LESS THAN .05

* + DATA WITHHELD BY BUREAU OF CENSUS

MARYLAND STATE PLANNING COMMISSION



TABLE 14

DISTRIBUTION OF VALUE ADDED BY MANUFACTURE

MARYLAND, SELECTED YEARS 1921-1947

<u>Industry</u>	Share 1921	of Total 1929		Added 1947	Change 1921 - 1947
Primary Metal	3.1%	7.5%	17.2%	14.0%	÷10.9%
Fabricated Metal Products	5.6	7.5	7.3	7.3	÷ 1.7
Electrical Machinery	-	1.4	2.8	3.1	+ 1.7 (Since 1929)
Food and Kindred Products	14.3	18.3	16.4	16.0	÷ 1.7
Chemicals and Allied					
Products	11.0	10.7	13.7		
Rubber Products		-	1.1	2.4	+ 1.3 (Since 1939)
Instruments	.05	.07	.2	•3	+ .25
Transportation Equipment	13.0	7.9	9.7	13.2	+ .2
Stone, Clay and Glass	0.7				
Products	3.1	3.3		2.9	2
Miscellaneous Manufactures	2.1	2.0	1.9		3
Paper and Allied Products	2.6	1.9	2.0	2.2	.4
Leather and Leather Products	1.7	3.0	י י	0	d
Furniture and Fixtures	1.9	1.9 2.2	1.1 •9	.9	8 - 1.0
Lumber and Lumber	1.7	2.2	• 7	•9	= T.O
Products	2,8	2.4	1.3	1.2	- 1.6
Tobacco Manufactures	1.7	.2	.06	.04	- 1.66
Machinery (Except	'	• ~	•00	.04	_ 1.00
Electrical)	5.6	4.7	2.7	3.9	- 1.7
Textile Mill Products	4.3	3.0	2.5		- 2.2
Petroleum and Coal					
Products	4.0	3.0	2.1	1.6	- 2.4
Printing and Publishing					
Industries	7.6	7.9	5.2	4.8	- 2.8
Apparel and Related					
Products	17.7	13.7	8.5	7.9	- 9.8
STATE	100.0%	100.0%	100.0%	100.0%	

between 1929 and 1939. The changes brought about in the clothing industry during the depression, such as the effect of the short-lived NRA and the impact of NLRB rulings, may account for this loss in importance.

Value added by manufacture in 1947 by Maryland manufacturers amounted to 1.5% of the value added in the United States in this year. Individual major industry group's shares of the national group's totals

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varied from the .06% added by the Tobacco Manufacturers Group to the high share of 2.8% accomplished by the Primary Metals Group. Tables 21 through 24 show the relationship of each major group in the state to the equivalent group in the United States as a whole for the years 1921,1929,1939, and 1947.

The five industry groups with the largest percentage of value added by manufacture relative to their national standing have been ranked with the same industries in other states, which have a large percentage of national value added accruing to them. Table 31 in the Appendix shows this ranking.

It must be kept in mind that this table is a comparison of major industry groups, not of sub-groups or of individual industries. Thus, Michigan leads in value added by manufacture of transportation equipment but has a low rank in the manufacture of ships and boats; a division of the transportation equipment group in which Maryland ranks fourth among the other states. New Jersey leads in the manufacture of chemicals and allied products, but the largest amount of value added by the manufacture of fertilizer was added by Maryland. Table 32 in the Appendix illustrates Maryland's position in the United States in the manufacture of various products.

From this table it is seen that Maryland is first in the fertilizer industry; third in tin cans and tinware; fourth in scientific instruments, umbrellas, parasols and canes; fifth in men's and boy's clothing, and ships and boats; and sixth in the manufacture of brooms and brushes.

It is unfortunate that the census figures for the iron and steel industry in Maryland are not available. Because there are fewer than four firms in the State engaged in the manufacture of iron and steel,

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the data are not divulged. However, this industry would certainly be listed among the leaders if the information were available. The iron and steel industry also figures prominently in the future development of industry in the State. A previous study completed by the Commission indicated the possibility of 10,000 new jobs resulting from an expansion of the steel industry. With the recent announcement of a \$75,000,000 expansion program to be undertaken at Sparrows Point, the realization of this forecast may not be too far distant.

The fertilizer industry is concentrated in the South Atlantic States. Nearly fifty per cent of the total value added by manufacture was provided by these states. And of this amount about twenty-five per cent was added by Maryland producers.

Of the total value added by manufacture in the ship and boat industry slightly over one-half was contributed by five states. Of this, one-fifth accrued to Maryland manufacturers. Two states accounted for forty-five per cent of the total value added in the manufacture of men's and boy's clothing while five other states, including Maryland, contributed about equally to twenty-five per cent of the nation's total. Maryland, ranking third in the production of tin cans and tinware, approximated California's volume and produced about two-fifths as much as the leader, Illinois. These three states between them added fifty per cent of the total value added in this industry.

Tobacco Manufactures. Attention must also be given to Maryland's weaknesses. Tobacco manufactures in the State amounted to only .06% of the

^{1/} Maryland State Planning Commission, Survey of the Impact of F.O.B. Mill Pricing on Maryland Manufacturers, November 1949.

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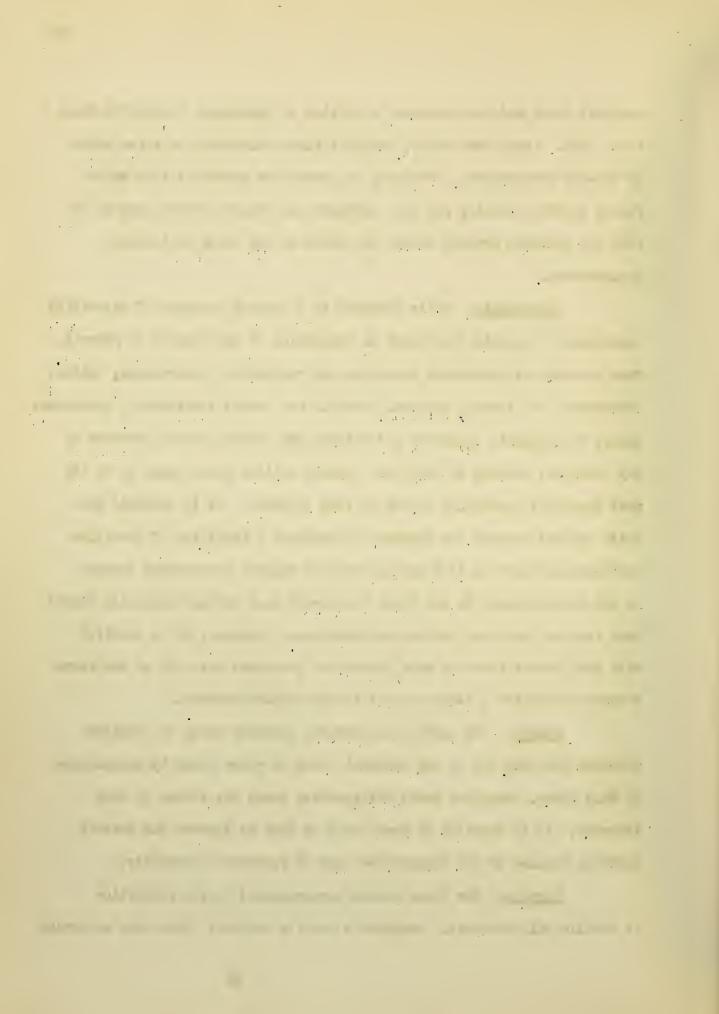
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The state of the second control of the secon the market of the segment of the seg national total and has undergone a decline in importance within the State since 1921. Among the states, Maryland ranks thirteenth in value added by tobacco manufacture. Proximity to production materials is a major factor in this industry yet more northern and western states such as New York and Michigan greatly exceed the State in the value of tobacco manufactures.

Instruments. While Maryland is a leading producer of scientific instruments it is only fourteenth in production of instruments in general. Such products as mechanical measuring and controlling instruments, optical instruments and lenses, surgical, medical and dental instruments, ophthalmic goods, photographic equipment and watches and clocks are not produced in any important amounts in Maryland. Highly skilled labor seems to be the most important production factor in this industry. It is possible that while skilled workmen are abundant in Maryland a tradition of precision craftsmanship such as is found in some New England watchmaking centers is not strong enough in the State to attract some of the industries listed that require precision production techniques. However, it is doubtful with the present state of mass production processes that all of the above industries require a large core of highly skilled workers.

Lumber. The Lumber and Products Industry Group in Maryland accounts for only .5% of the national total of value added by manufacture of this group. Maryland ranks thirty-third among the states in this industry. It is doubtful if much could be done to improve the State's position because of the comparative lack of production materials.

Textiles. The State stands twenty-second in the production of textile mill products. Maryland's textile industry while only producing



.5% of the national production is well established and capable of expansion by both increasing domestic production and attracting new industry. The industry's migration to the South has not always resulted in a satisfactory solution to management's problems chiefly because of an unreliable labor force. Maryland's labor supply, which has long been adapted to mass production methods and disciplines, should, be a strong selling-point to present to dissatisfied textile manufacturers.

Machinery (Except Electrical). The production of machinery (except electrical machinery) in Maryland accounts for .6% of the total value added by manufacture in the nation. Maryland ranks seventeenth in this industry. The industry is strong in the State and because of the desirable production factors present in the State there should be efforts made to capture a larger share of the national production of machinery.

The above five industry groups are those Maryland industries which showed the lowest percentages of U. S. production in 1947. Only one of these groups seems to offer little if any possibility of expansion. To diversify and strengthen Maryland industry, even more efforts should be made to expand the remaining four groups.

Concentration of Industry in the Baltimore Metropolitan Area

The census of Manufactures does not give detailed statistics for the individual counties of Maryland, but several interesting conclusions about concentration of industry in Maryland can be drawn from the data that are available.

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The Baltimore Metropolitan Area comprises Baltimore City, Baltimore County and Anne Arundel County. In this area is found 63.2% of the manufacturing establishments in the State. These establishments employ 73.6% of the State's manufacturing production workers and account for 79.0% of the total value added by manufacture in 1947 in Maryland. With value added by manufacture as a measure, the durable goods producing industries are economically more heavily concentrated in the Baltimore Metropolitan Area than are the non-durable goods producers. Table 15 illustrates this concentration. The durable industries in this area account for 88.4% of the total value added by durable goods manufacturers in Maryland while the non-durable industries of the Metropolitan Area added 73.1% of the total value added by manufacture. However, 64.2% of the total non-durable goods establishments as compared with 61.4% of the durable establishments were located in the Metropolitan Area.

The concentration (in value added) was greater than 50% in all industry groups save in the Lumber and Products, except Furniture Group, where 45.5% of the total value added by manufacturers was added in the Baltimore Metropolitan Area and the Leather and Leather Products Group (47.0%). The latter group was also third smallest in percentage of workers employed in the Metropolitan Area, the Petroleum and Coal Products Group being low group with only 22.6% of its employees in the Baltimore Metropolitan Area.

The highest concentration of value added by manufacture was that of the Primary Metals Group (97.9%) followed closely by Electrical Machinery (96.4%), the Fabricated Metal Products Group (94.1%) and the Printing and Publishing Industry Group (90.3%).

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TABLE 15

COMPARISON OF STATE WITH

BALTIMORE METROPOLITAN AREA, 1947

	Number	Number of Establishments Raltimore	shments	Pro	Production Workers	kers	Value A	Value Added (in thousands)	ousands)
Durable Industries	State	letro.Area	Per Cent	State	Metro.Area	Per Cent	State	Metro.Area	Per Cant
Lumber and Products,									
Except Furniture	227	53	23.3	3,946	1,438	36.4	13,112	2,962	45.5
Furniture and Fixtures	35	77	83.7	2,330	1,740	74.7	10,070	7,510	74.6
Stone, Clay and Glass				•	•		•	•	
Products	160	99	41.3	5,994	4,115	68.7	33,472	23,169	2.69
Primary Metal Industries	87	93	79.2	26,521	25,639	2°96	158,332	155,559	97.9
Fabricated Metal Products	155	131	84.5	14,686	13,688	93.2	83,150	78,225	94.1
Machinery (Except				•	•				
Electrical)	130	901	81.5	8,123	6,349	78.2	44,269	34,499	77.9
Electrical Machinery	25	18	72.0	6,107	5,743	0.76	34,812	33,542	7.96
Transportation Equipment	3	77	72.6	27,515	24,193	87.9	150,823	N.A.	1
Instruments and Related				•					
Products	77	18	75.0	657	N.A.	1	3,680	N.A.	1
Miscellaneous Manufactures	103	7/8	75.7	7.626	2,665	57.6	20,500	13,380	65.3
				F			Ċ		
Durable Total	1,026	630	61.4	/ 7 878,66	85,570	85.7	398,2175/	351,846	7.88

(Continued)

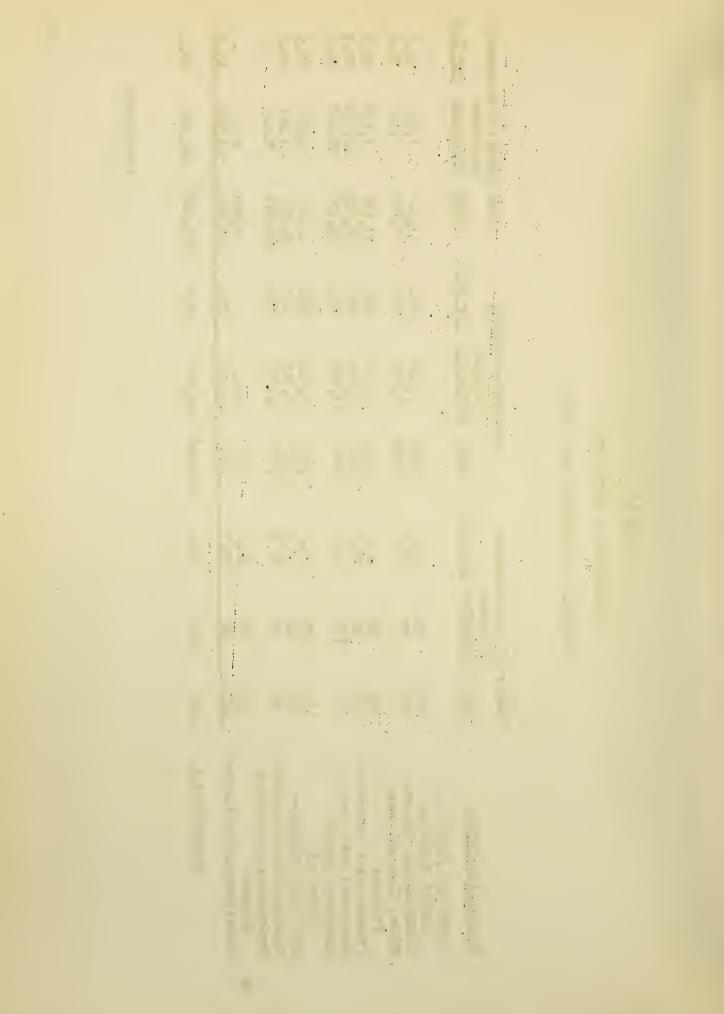


TABLE 15 (Continued)

COMPARISON OF STATE WITH

BALTIMORE METROPOLITAN AREA, 1947

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usands)	Per Cent	76.1	82.1 58.3	90.3	65.0	1 1	73.1	79.0
Added (in thousands)		144,210 N.A. 12,483	76,891	000,67	92,644	N.A.	10,422 540,182 <u>4</u> ,894	5/ 899,534, 5/
Value /	State	189,436 401 24,517	93,695	54,241	142,559	18,016 27,088	10,422	1,138,407 5/
ers	Per Cent	60.3	68.9	89.3	51.4	99.9	38.5	73.6
Production Workers Baltimore	Wetro.Area	15,573 N.A. 2,579	14,653	5,902	7,347	1,953	1,163	138,810 5/
Prod	State M	25,842 151 5,421	21,274	6,607	14,305	1,955	3,020	188,639 5/
blishments re	Per Cent	47°1 40°0 39.6	81.8 79.6	72.5	75.6	93.8	67.9	63.2
Number of Establi Baltimore	Metro.Area	332 2 19	34.1 39	245	136	15	19	1,785
Number	State	705	417	338	180	16	1,799	2,825
	Non-Durable Industries	Food and Kindred Products Tobacco Manufactures Textile Mill Products	Products Paper and Allied Products	Industries Themical and Allied	Products	Products Rubber Froducts	Leather and Leather Products Non-Durable Total	TOTAL

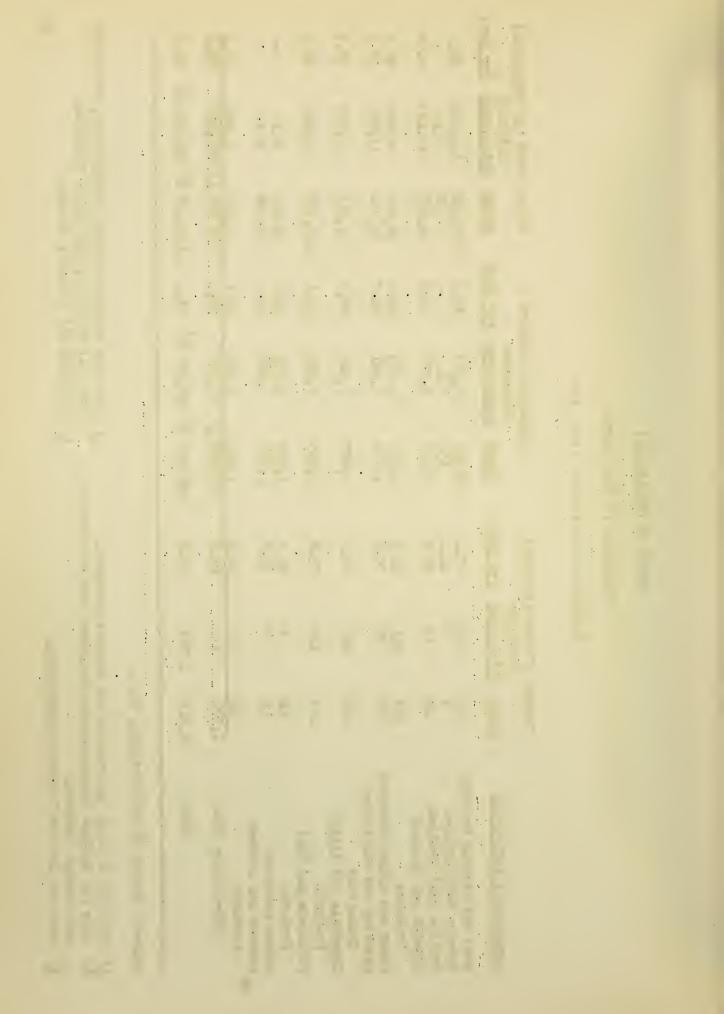
Census of Manufactures, 1947. Source:

Does not include Transportation Equipment and Instruments Does not include Instruments and Related Products. and Related Products. नोला

Does not include Tobacco Manufactures.

and Coal Products, and Rubber Products. Includes all Industry Groups. 2 77

Does not include Tobacco Manufactures, Petroleum



Comparison of Maryland Counties

Table 16 shows a number of relationships, both inter and intracounty in scope. First, the counties have been ranked by the number of
manufacturing establishments. The number of establishments in each county
has been broken down into the number of firms employing 1-19 persons, the
number employing 20-29 persons and those employing over 100 workers. Two
percentages are shown. The number of firms in each size group is expressed
as a percentage of the total number of firms in each county. And the number
of firms in each county is expressed as a percentage of the number of establishments in the State.

Baltimore City, as is seen in this table, is the home of 58% of the manufacturing establishments in the State. The remaining 42% is distributed throughout the twenty-three counties of Maryland; the distribution ranging from 112 firms or 4.0% in Washington County to nine firms or 0.3% of the State, in Calvert County. Geographically, the counties with the largest number of manufacturers are in central Maryland, although Caroline, Dorchester, Wicomico and Worcester counties largely due to the influence of packing and canning plants, are among the leading counties.

An analysis was made to determine the relationship between the number of firms in a county as related to the size of firms. It was found that the two go together. That is those counties which contained a large number of manufacturing establishments were most likely to be the location for large manufacturing firms (firms employing 100 or more). While the counties which had the smallest number of establishments were also the location for the smallest size firms.

Table 16 shows the distribution of firms throughout the counties.

This distribution seems to be fairly even for no one county greatly exceeds

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TABLE 16

NUMBER OF MANUFACTURING ESTABLISHMENTS IN MARYLAND

BY COUNTY AND SIZE OF ESTABLISHMENT

1947

Per cent cf State	8446644084444444 004408444444440844484666644	100.0
Total 0	1, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	2,825
Per cent	27234295,42,642,4343	12
Over 100 Employees	20000000000000000000000000000000000000	349
Per cent	°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	2
20-99 Employees	00000000000000000000000000000000000000	273
Per cent of County	\$	58
1-19 Fmployees	88 69 69 69 69 69 69 69 69 69 69 69 69 69	1,628
Rank	100450000000000000000000000000000000000	
County	Ealtimore City Washington Baltimore County Wicomico Carroll Trederick Dorchester Worcester Caroline Montgomery Prince George's Allegany Harford Anne Arundel Somerset Talbot Cecil Garrett St. Mary's Kent Charles Charles	STATE

Source: Census of Manufactures, 1947.

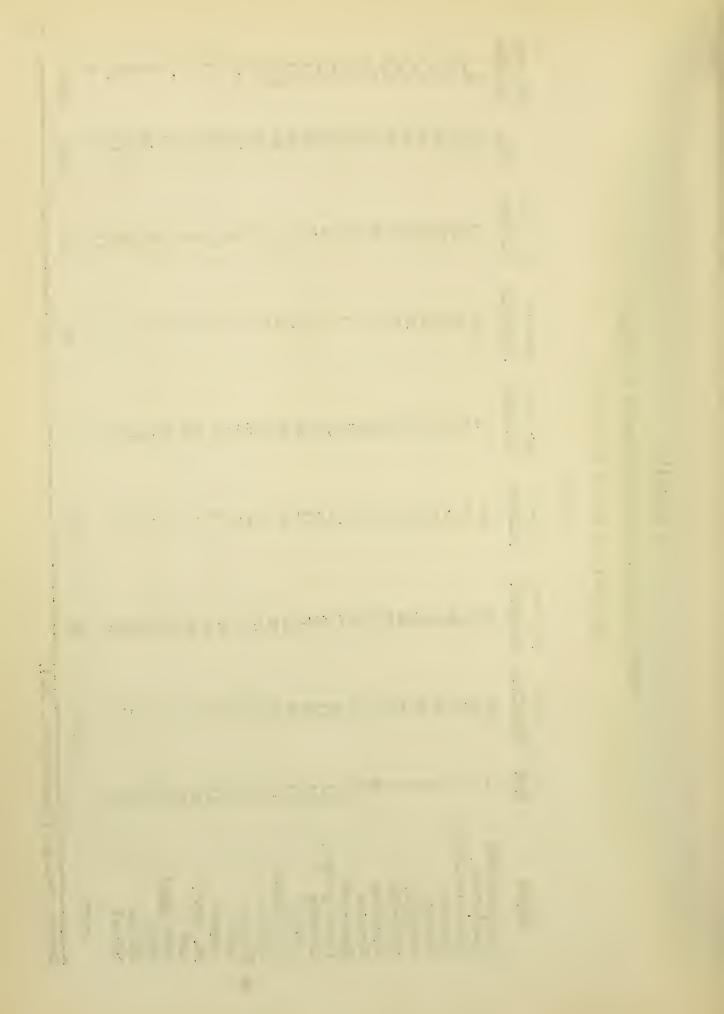


TABLE 1.7

VALUE ADDED BY MANUFACTURE BY COUNTY

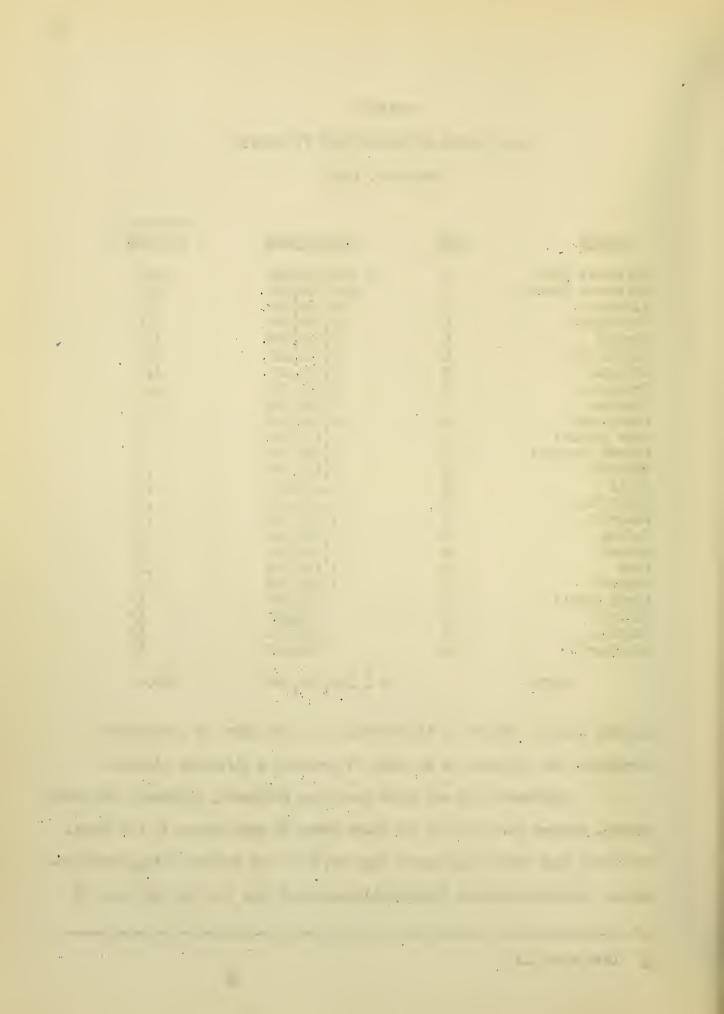
MARYLAND, 1947

County	Rank	Value Added	Per cent of State
Baltimore City	1	\$ 667,323,000	58.6
Baltimore County	2	225,799,000	19.8
Allegany	3	86,262,000	7.6
Washington		46,320,000	4.1
Carroll	4 5	17,601,000	1.5
Dorchester	6	13,352,000	1.2
Wicomico	7	13,129,000	1.2
Frederick	8	12,130,000	1.1
Caroline	9	6,605,000	•6
Montgomery	10	6,581,000	.6
Anne Arundel	11	6,412,000	.6
Prince George's	- 12	6,260,000	•5
Harford	13	5,543,000	•5
Cecil	14	5,463,000	•5
Worcester	15	5,423,000	•5
Somerset	16	3,240,000	•3
Talbot	17	3,185,000	•3
Howard	18	3,088,000	.3
Kent	19	1,488,000	•1
Garrett	20	1,254,000	•1
Queen Anne's	21	728,000	1/ 1/ 1/
Calvert Charles	22	455,000	‡∕,
St. Mary's	23	400,000	=//
oc mary s	24	366,000	<u> 1</u> /
STATE		\$ 1,138,407,000	100.0

another county. However a distribution of value added by manufacture throughout the counties as in Table 17 presents a different picture.

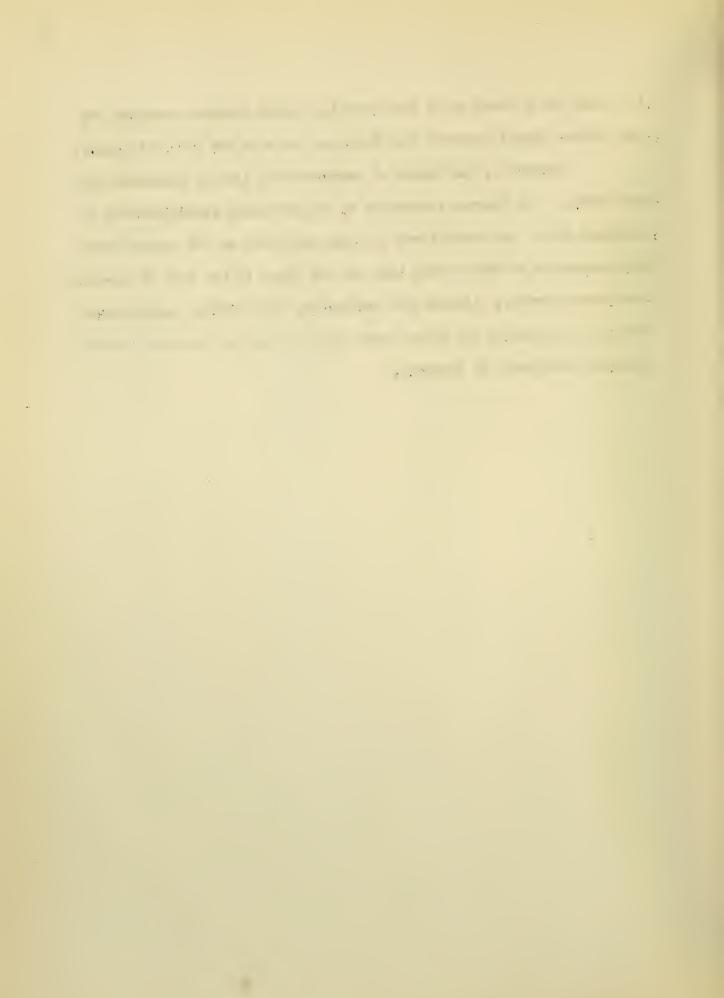
Baltimore City and three counties, Baltimore, Allegany, and Washington, account for 90.1% of the value added by manufacture in the State. Yet these same four areas harbor only 67.5% of the manufacturing establishments. Sixteen counties individually produced less than one per cent of

^{1/} Less than 0.1%.



the total value added while four counties (three Southern Maryland and one Eastern Shore) produced less than one tenth of one per cent apiece.

Obviously, the center of manufacturing lies in Baltimore City and County. The largest percentage of manufacturing establishments is centered here. And these firms are more important on the average from the standpoint of value added than are the firms in the rest of Maryland. Two other counties, Allegany and Washington, also exhibit manufacturing strength at present, but other areas also possess the potential for the further development of industry.



APPENDIX



TABLE 18

VARIOUS MANUFACTURING STATISTICS AND INDEXES FOR THE UNITED STATES

SELECTED YEARS, 1921 - 1947

	1921	Index	1929	Index	1939	Index	1947	Index
Number of Establishments								
Total Durable Goods Industries Mon-Durable Goods Industries	190,657 67,746 122,911	100	217,078 84,284 132,794	113.9 124.4 108.0	173,802 60,335 113,467	91.2 89.1 92.3	240,801 110,063 130,738	126.3 162.5 106.4
Number of Production Workers								
Total Durable Goods Industries 2,955,488 Non-Durable Goods Industries 3,444,595	5,400,083 2,955,488 3,444,595	100	9,232,944 5,175,683 4,057,261	144.3 175.1 117.8	7,808 <u>1/</u> 3,658 <u>1/</u> 4,150 <u>1/</u>	122.0 123.8 120.5	11,918 <u>1/</u> 6,567 <u>1/</u> 5,351 <u>1/</u>	186.2 222.2 155.3
Mages								
Total Durable Goods Industries Non-Durable Goods Industries	7,388,405 <u>2</u> / 3,598,661 <u>2</u> / 3,789,744 <u>2</u> /	100	12,206,722 <u>2/</u> 7,430,391 <u>2/</u> 4,776,331 <u>2/</u>	165.2 206.5 126.0	N. A. N. A.	: 1 t	30,2483/ 17,5663/ 12,6823/	409.4 488.1 334.6
Value Added								
Total Durable Coods Industries 7,520,1342/ Non-Durable Goods Industries 9,689,8212/	7,209,9552/ 7,520,1342/ 9,689,8212/	100	30,8 67 ,514 <u>2</u> / 17,710,036 <u>2</u> / 13,157,478 <u>2</u> /	179.4 235.5 135.8	24,4873/ 11,2903/ 13,1973/	142.3 150.1 136.2	74,3643/ 37,6333/ 36,7313/	432.1 500.4 379.1

1/ In thousands of workers. 2/ In thousands of dollars. 3/ In millions of dollars.

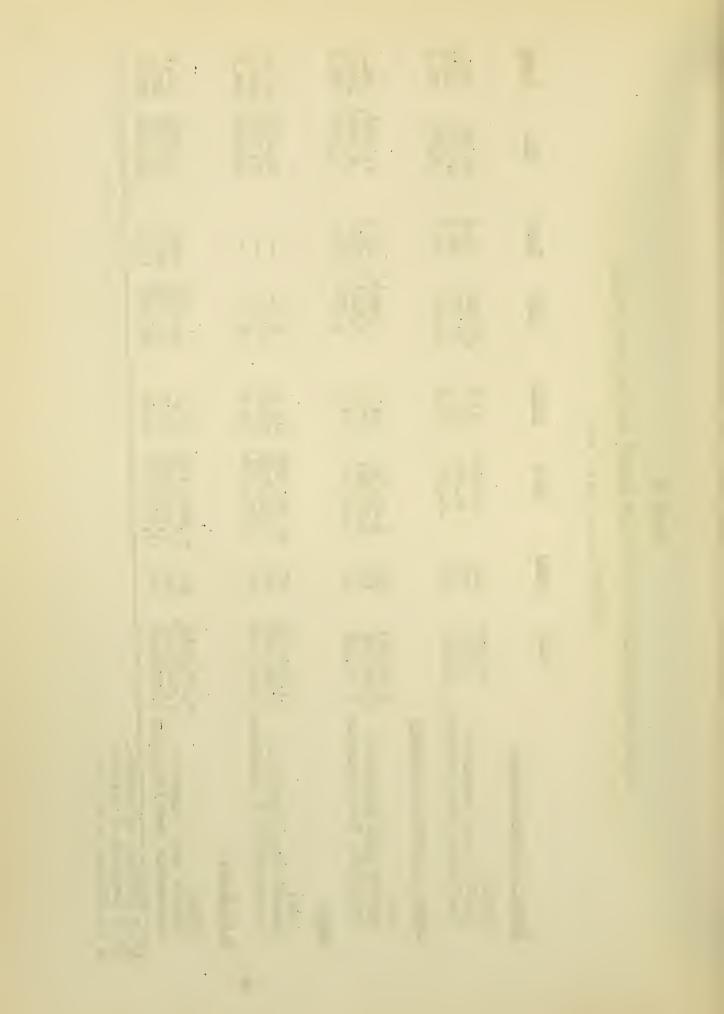


TABLE 19

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND

SELECTED YEARS, 1921 - 1947

Index		90.5 109.6 82.4		176.8 222.8 143.2		413.2 442.3 377.8		462.8 600.0 380.9	
1947		2,825 1,026 1,799		188,639 100,505 88,134		457,704 <u>2</u> / 269,394 <u>2</u> / 188,310 <u>2</u> /		1,138,407 552,720 585,687	
Index		86.9 83.4 88.5		132.1 140.7 125.9				171.0 216.1 140.1	
1939		2,712 781 1,931		140,930 63,460 77,470		N. A. N. A.		420,539 199,064 221,525	
Index		103.2 97.2 105.8		122.3		133.6 148.9 115.0		168.2 175.3 164.1	
19291/		3,220 910 2,309		130,534 52,676 77,856		148,021,351 90,688,084 57,333,267		413,803 161,486 252,317	
Index		100		100		100 1		100	
1921]/		3,120 936 2,182		106,692 45,105 61,533		110,760,516 60,913,219 49,847,297		245,998 92,113 153,750	
	Number of Establishments	Total Durable Goods Industries Non-Durable Goods Industries	Number of Production Workers	Total Durable Goods Industries Non-Durable Goods Industries	Wages	Total Durable Goods Industries 60,913,219 Non-Durable Goods Industries 49,847,297	Value Added2/	Total Durable Goods Industries Non-Durable Goods Industries	

1/ Due to the adjustments referred to in the text the sum of those statistics for durable and non-durable industries will not necessarily agree with the total figure shown in 1921 and 1929.

2/ In thousands of dollars.

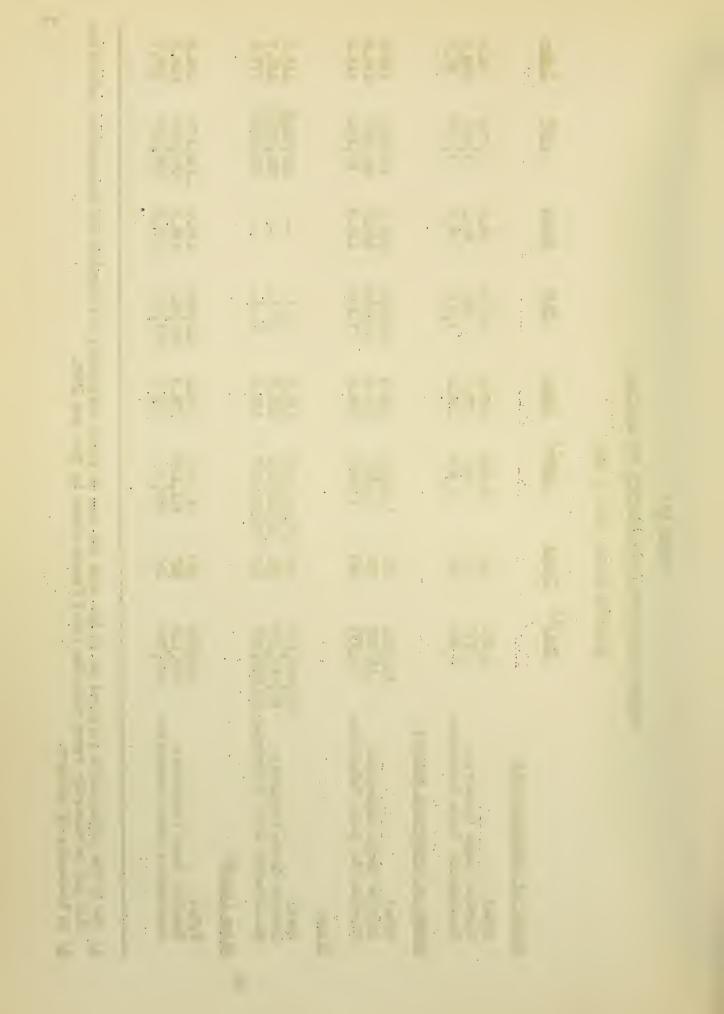


TABLE 20

AVERAGE NUMBER OF PRODUCTION WOPKERS PER ESTABLISHMENT IN MARYLAND AND UNITED STATES BY INDUSTRY

SELECTED YEARS, 1921 -1947

~1		38
kers, 1947	17.4 25.3 37.5 552.5 94.7 62.5 443.8 27.4 44.9	36.7 36.7 30.2 112.9 51.0 97.3 19.5 107.9 49.0
No. of Workers, 1947	22.8 36.8 34.8 188.3 49.1 69.5 160.8 70.0	27.5 27.5 95.7 141.4 31.5 94.8 15.1 46.4 122.6 245.7 65.8
No. of Workers, 1939 U.S. Md.	20.3 24.6 32.8 489.1 66.5 48.3 143.3 320.6 25.0	81.3 24.6 25.9 122.4 51.3 77.4 70.7 106.5 124.0
No. of Wo.	32.0 36.5 40.0 191.3 47.3 60.5 125.3 270.9 65.8	60.6 115.0 115.0 169.2 37.1 81.2 88.0 203.4 93.3
No. of Workers. 1929 U.S. Md.	19.7 33.9 35.9 151.9 43.2 73.5 15.0	57.9 17.5 27.8 133.7 53.5 83.2 18.0 0.2.2 N.A.
No. of Wor	28.8 39.9 38.1 115.6 70.4 70.4 73.9 73.9	61.4 13.4 64.9 151.1 26.5 77.0 13.1 33.0 121.0 284.1 74.3
rkers, 1921 Md.	16.6 28.9 24.6 85.0 59.6 39.6 N.A. 211.4	48.2 12.2 48.4 122.1 43.5 106.5 179.3 N.A. 60.0
No. of To	31.5 32.8 30.5 44.3 120.5 26.5 26.5	43.6 12.1 34.3 131.6 25.7 71.9 12.6 25.9 12.6 26.2 28.0
	Durable Industries Lumber and Products, Except Furniture Furniture and Fixtures Stone, Clay and Glass Products Primary Wetal Industries Fabricated Metal Products Machinery (Except Electrical) Electrical Machinery Transportation Equipment Instruments and Related Products Miscellaneous Manufacture	Mon-Durable Industries Food and Kindred Products Tobacco Manufactures Textile Mill Products Apparel and Related Products Paper and Allied Products Printing and Publishing Industries Chemicals and Allied Products Rubber Products Rubber Products Leather and Leather Products TOTAL

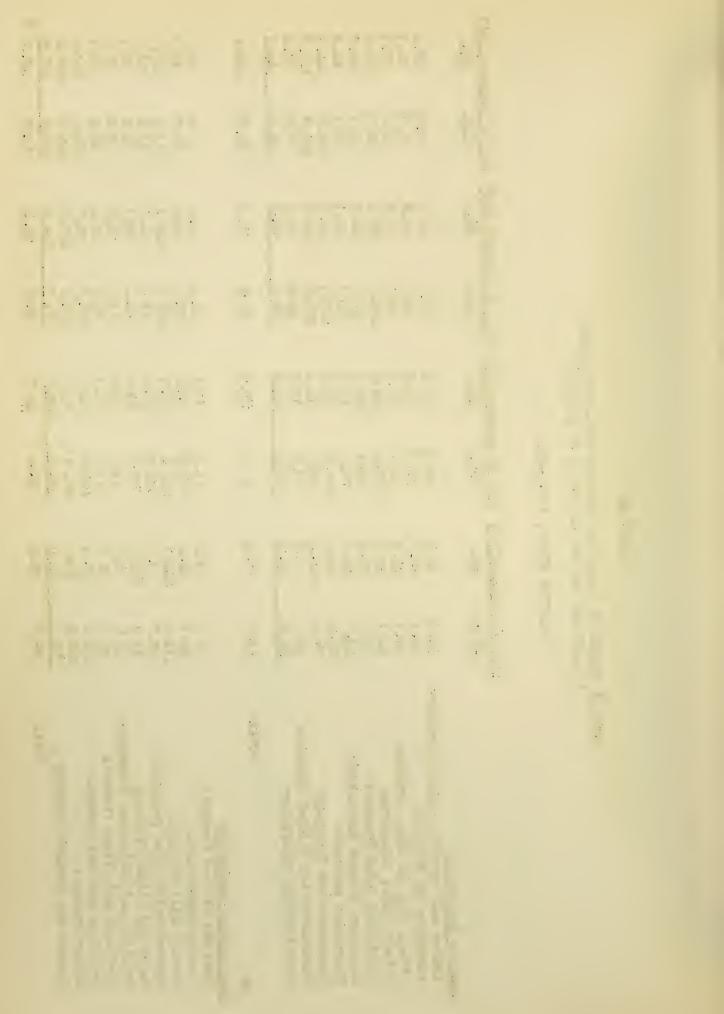


TABLE 21

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

NUMBER OF ESTABLISHMENTS

		1001	Selected	ed Years	Ocol		
Durable Industries	U.S.	State	% of U.S.	U.S.	State	% of U.S.	
Lumber and Products, Except Furniture	16,548	252	1.5	20,928	240	1,1	
Furniture and Fixtures	4,326	77	1.8	5,491	66	8	
Stone, Clay and Glass Products	8,227	160	1.9	3,688	136	1.6	
Primary Metal Industries	6,652	97	7.	9,081	77	w.	
Fabricated Metal Products	6,654	108	1.6	6,007	103	1.1	
Machinery (Except Electrical)	6,663	129	1.3	11,393	127	1,1	
Electrical Machinery	1,487	ı	,	1,861	15	ಹ	
Transportation Equipment	4,273	62	1°3	4,847	65	1.3	
Instruments and Related Products	1,592	5	'n	1,109	2	₹,	
Miscellaneous Manufacture	8,294	78	6.	11,879	76	9.	
TOTAL	97,179	936	1.4	84,284	910	1.1	
Non-Durable Industries							
Food and Kindred Products	51,502	1,021	2.0	55,325	1,115	2.0	
Tobacco Manufactures	4,372	50	1,1	1,788	, 21	1.2	
Textile Mill Products	7,695	99	7.	7,415	50	7.	
Apparel and Related Products	50,049	513	2.6	22,370	513	2.2	
Paper and Allied Products	2,511	37	1.5	2,973	41	1.4	
Printing and Publishing Industries	22,559	318	1.4	27,364	369	1,3	
Chemicals and Allied Products	8,208	174	1.8	9,327	154	1.7	
Petroleum and Coal Products	692	9	6.	922	91	1.7	
Rubber Products	967	t	1	525	1		
Leather and Leather Products	4,827	37	€0	4,285	29	.7	
TOTAL	122,911	2,132	ь В	132,794	2,309	1.7	
			•				

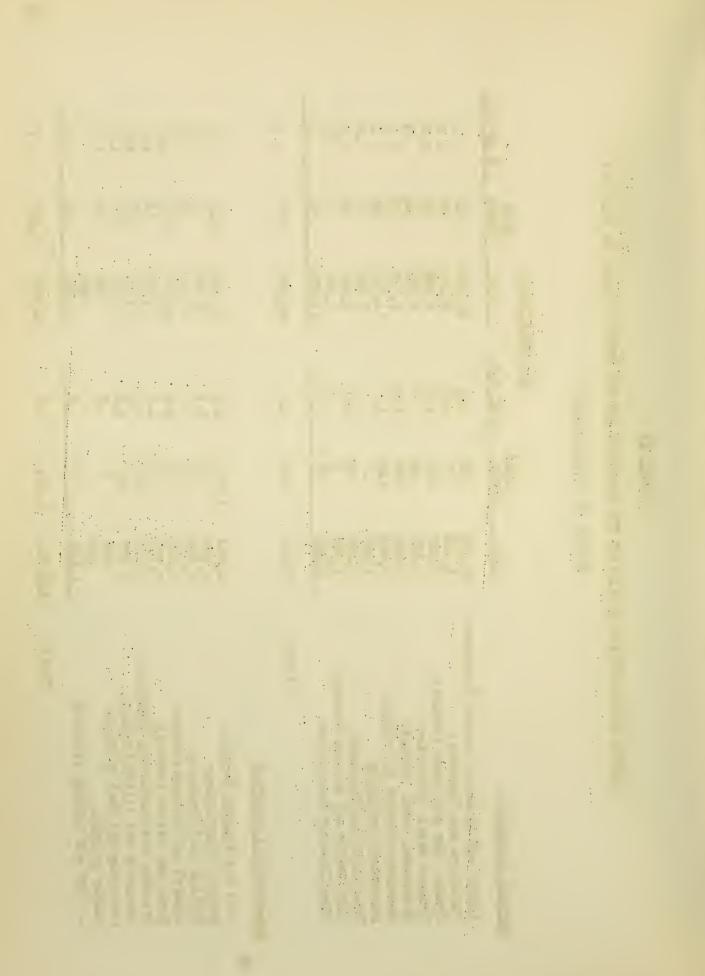


TABLE 21 (Contd.)

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

NUMBER OF ESTABLISHMENTS

	% of U.S.	0	1.2	1.4	6	6.	.7	9.	, • 1 . 9	. 7	6.		₽ .	2.	9.	1.3	- i -	ν α 	0 0	۱ - ۲۰	, r.	1.4
	<u>194.7</u> State	227	92	160	78	155	130	22 V	02 24	103	1,026		705	Ŋ	87	417	40	180	16	3	38. (38.	1,799
Selected Years	U.S.	26,324	7,687	11,650	5,363	16,729	17,907	3,973	2,599	14,125	110,063		39,904	1,087	8,110	30,905	4, 103	10,073	1,387	875	5,307	130,738
Sel	% of U.S.	1,1	1.5	2.0	1.2		ထွ် င		0	1.2	1.3		1.9	o. 1	ຸດ ໝູດ	۷.۲	† -	1 1	1.7	2.9	ಹಿ	1.7
1930	State	142	08	135	41	143	2 2	57 77	II	98	781		8174	r (44	402 7.7	333	156	21	17	27	1,931
	U.S.	13,208	5,178	8/.0,0	3,512	4,032	1,970	2,012	1,292	780.8	60,335		43,667	705	20,200	3,328	24,878	8,839	1,227	595	3,505	113,467
	<u>Durable Industries</u>	Lumber and Products, Except Furniture	Stone Clay and Class Decamot	Primary Metal Transport	Fabricated Metal Dackint	Machinery (Except Flectmical)	Electrical Machinery	Transportation Equipment	Instruments and Related Products	mracerraneous manuracture	TOTAL	Non-Durable Industries	Food and Kindred Products	Textile Will Products	Apparel and Related Products	Paper and Allied Products	Printing and Publishing Industries	Chemicals and Allied Products	FetroLeum and Coal Products	Toother Froducts	readuer and Leather Froducts	TOTAL

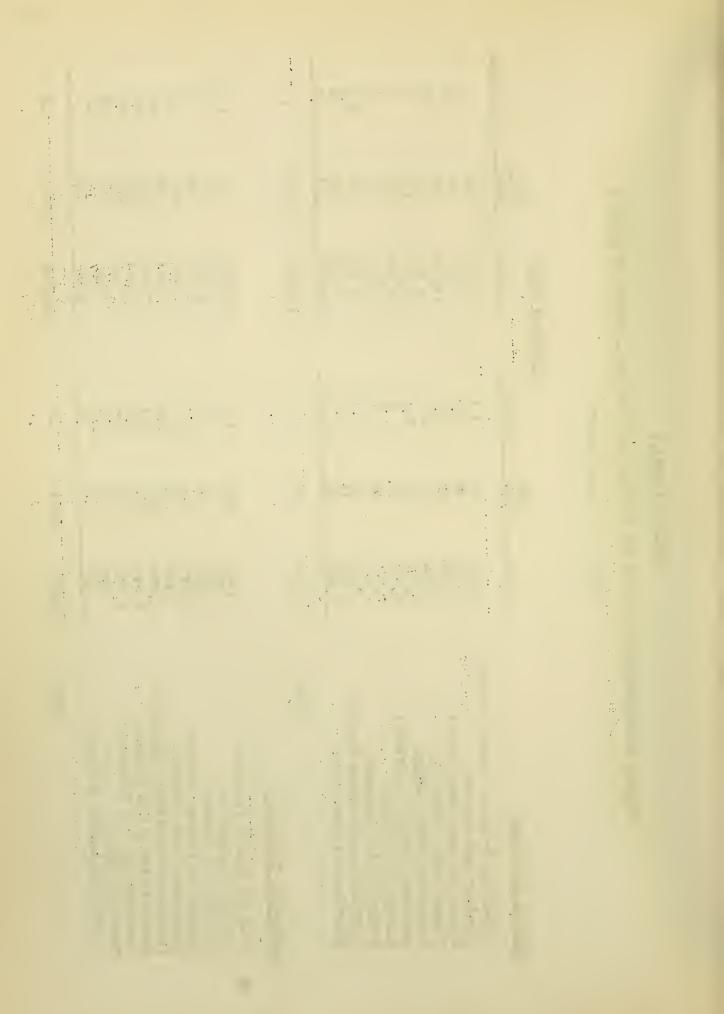


TABLE 22

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

NUMBER OF PRODUCTION WORKERS

	S																								41
	% of U.S.	∞.	1.5	1.5	9.	1.9	7.	w.	1.4	٦.	1.2	1.0		2.6	r.	9.	4.5	1.5	1.9	2.6	1.3	ı	1.1	1.9	
1020	State	4,727	3,354	4,889	6,683	9,324	2,484	1,102	13,789	75	3,255	52,676		19,538	584	989,9	27,426	3,413	6,635	8,048	1,475	1	3,645	77,856	
ears	U.S.	603,426	219,328	330,708	1,049,595	492,558	802,168	343,138	981,511	81,905	271,346	5,175,683		740,937	116,119	1,120,200	606,087	228,919	358,438	307,387	111,554	149,148	318,472	4,057,261	
Selected Years	% of U.S.	₩.	1.6	1.6	6.	2.0	1.2	,	4.1 _ ,	/∓	1.1	1.5		2.0	1.6	.7	4.3	2.2	1.7	2.5	1.2	1	ώ	1.8	
1921	State	4,192	2,228	3,942	3,908	6,433	5,105		16,697	97	2,454	45,105		12,457	2,422	078,9	22,338	3,941	4,835	5,405	1,076		2,219	61,533	
	U.S.	520,731	142,020	251,157	427,547	318,856	423,252	179,142	405,773	67,218	219,792	2,955,488		620,750	149,985	1,012,384	514,666	180,604	283,768	212,264	86,538	103,273	280,363	3,444,595	
												TOTAL												TOTAL	
	Durable Industries	Lumber and Products, Except Furniture	Furniture and Fixtures	Stone, Clay and Glass Products	Primary Metal Industries	Fabricated Metal Products	Machinery (Except Electrical)	Electrical Machinery	Transportation Equipment	Instruments and Related Products	Miscellaneous Manufacture		Non-Durable Industries	Food and Kindred Products	Tobacco Manufactures	Textile Mill Products	Apparel and Related Products	Paper and Allied Products	Printing and Publishing Industries	Chemicals and Allied Products	Petroleum and Coal Products	Rubber Products	Leather and Leather Products		1/ Less than 0.1%

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TABLE 22 (Contd.)

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATED BY INDUSTRY

NUMBER OF PRODUCTION WORKERS

		1939	Selec	Selected Years		
Durable Industries	U.S.I	State	% of U.S.	U.S.1	State	% of U.S.
Lumber and Products, Except Furniture	423	2,882	L.	599	3,946	F. 6
Furniture and Fixtures	189	1,971	0 1	283	2,330	χ,
Stone, Clay and Glass Products	267	4,433	1.7	706	5,994	L.5
Primary Wetal Industries	672	20,055	3.0	1,010	26,521	2.6
Fabricated Metal Products	451	9,506	2.1	822	17,686	J.8
Machinery (Except Electrical)	536	3,383	9.	1,244	8,123	.7
Electrical Machinery	248	2,006	ర్తు	629	6,107	1.0
Transportation Equipment	545	15,066	2.8	985	27,515	8° 8°
Instruments and Related Products	85	275	ņ	182	657	7.
Miscellaneous Manufacture	27.2	3,883	1.6	397	4,626	1.2
TOTAL	3,658	63,460	1.7	6,567	100,505	1.5
Non-Durable Industries						
Food and Kindred Products	802	20,052	2.5	1,098	25,842	2.4
Tobacco Manufactures	88	181	۲.	104	151	- !
Textile Will Products	1,081	5,999	9.	1,147	5,421	5.
Apparel and Related Products	753	23,691	3.1	71.6	21,274	2.2
Paper and Allied Products	270	3,534	1.3	389	4,770	1.2
Printing and Publishing Industries	324	5,290	1.6	738	6,607	1.5
Chemicals and Allied Products	276	12,078	4.4	794	14,305	3.1
Petroleum and Coal Products	108	1,485	1.4	170	1,955	1.2
Rubber Products	121	1,811	1.5	215	4,789	2.2
Leather and Leather Products	327	3,349	1.0	37.9	3,020	6.
TOTAL	4,150	77,470	1.9	5,351	88,134	1.6

1/ In thousands of workers.

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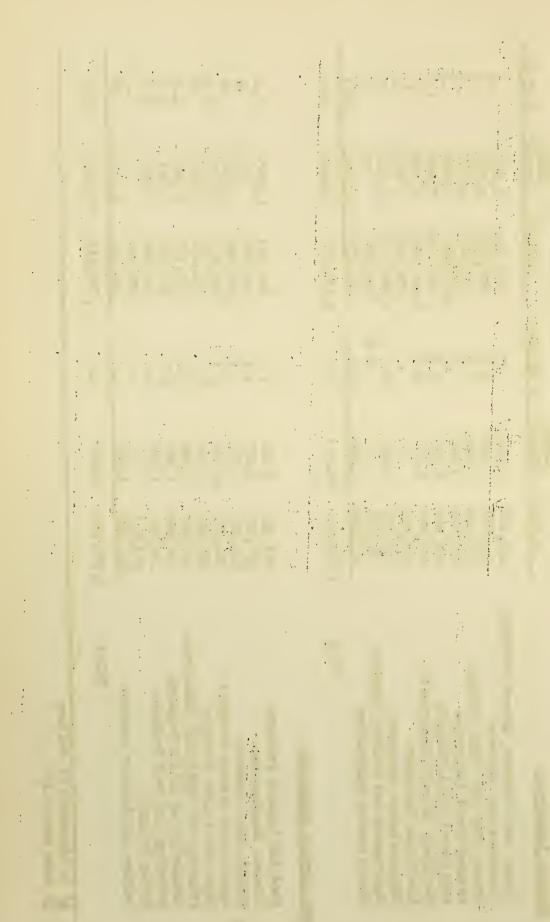
TABLE 23

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

WAGES PAID TO PRODUCTION WORKERS

		6	Sele	Selected Years		
Durable Industries	U.S.1/	State/	% of U.S.	U.S.1/	1929 State1/	% of U.S.
Lumber and Products, Except Furniture	482,768	3,393	7.	632,183	3,891	9.
Furniture and Fixtures	164,771	1,657	1.0	275,997	2,973	1.1
Stone, Clay and Glass Products	305,449	3,492	1,1	435,865	4,379	1.0
Primary Wetal Industries	566,791	3,866	7.	1,637,464	2,849	2.
Fabricated Metal Products	378,855	6,270	1.7	679,015	7,938	1.2
Machinery (Except Electrical)	569,766	5,931	1.0	1,236,763	6,465	ئ.
Electrical Machinery	216,016	ı	1	474,203	875	~
Transportation Equipment	591,333	21,334	3.6	1,580,533	16,318	1.0
Instruments and Related Products	77,786	4.5	2/	107,890	17	2.
Wiscellaneous Wanufacture	245,126	14.924	6.1	371,478	786,77	12.1
TOTAL	3,598,661	60,913	1.7	7,430,391	90,688	1.2
Non-Durable Industries						
Food and Kindred Products	742,352	9,927	1.3	895,713	13,955	1.6
Tobacco Manufactures	120,903	1,873	1.5	94,578	391	7.
Textile Mill Products	916,337	4,750	が	1,082,260	4,196	7.
Apparel and Related Products	584,036	15,951	2.7	978,989	17,601	2.6
Paper and Allied Products	197,926	3,460	1.7	281,461	2,601	6.
Printing and Publishing Industries	435,655	5,909	1.4	636,375	8,387	1.3
Chemicals and Allied Products	218,396	4,763	2.2	352,303	5,761	1.6
Petroleum and Coal Products	135,824	1,570	1.2	180,028	1,817	1,0
Rubber Products	123,613	1	ı	207,306	ı	•
Leather and Leather Products	314,652	1,643	.5	359,461	2,623	.7
TOTAL	3,789,744	49,847	1.3	4,776,331	57,333	1,2

 $\frac{1}{2}$ In thousands of dollars $\frac{2}{4}$ Less than 0.1%



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TABLE 23 (Contd.)

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

WAGES PAID TO PRODUCTION WORKERS

	% of U.S.	2.1.2.1 2.0.1 2.0.0 3.0.0 5.1	01.2011.11.11.20.11
2001	State1/	7,095 4,738 13,391 76,119 36,390 20,993 16,568 83,788 1,739 8,573	50,559 11,495 39,016 11,091 13,299 34,871 5,695 11,877 5,198
ted Years	U.S.2/	1,188 654 995 2,981 2,981 1,647 2,934 468 920 17,566	2,583 176 2,449 2,020 1,011 1,318 1,226 559 615 725
Selected	% of U.S.		
000	State	N.A.	
	U.S.	N.A.	
	Durable Industries	Lumber and Products, Except Furniture Furniture and Fixtures Stone, Clay and Glass Products Primary Metal Industries Fabricated Metal Products Machinery (Except Electrical) Electrical Machinery Transportation Equipment Instruments and Related Products Miscellaneous Manufacture TOTAL	Food and Kindred Products Tobacco Manufactures Textile Mill Products Apparel and Related Products Paper and Allied Products Printing and Publishing Industries Chemicals and Allied Products Petroleum and Coal Products Rubber Products Leather and Leather Products

1/ In thousands of dollars. 2/ In millions of dollars.

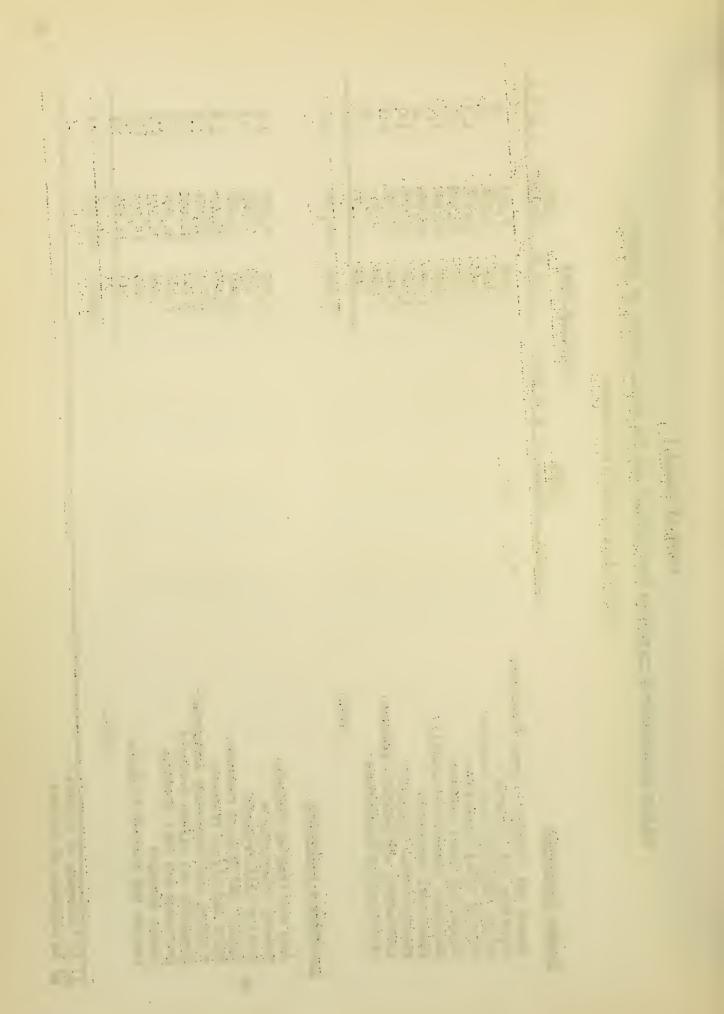


TABLE 24

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

VALUE ADDED BY MANUFACTURE

	% of U.S.	00 H	7.4	ထ္	т ,	9.	7.	1.1	1 4/	∞	6.		2.3	۲.	•5	2.9	1.0	1.5	2,6	.7		1.0	1.9	
OCOL	State1/ %	10,003	13,533	31,232	31,069	19,302	5,851	32,581	282	8,411	161,486		75,576	066	12,378	56,755	7,867	32,642	44,343	12,375		7,861	252,317	
d Years	U.S.1/	1,322,049	1,053,908	3,961,031	1,702,291	3,174,705	1,389,424	3,085,634	300,866	1,105,595	17,710,036		3,339,848	816,969	2,320,874	1,927,269	782,043	2,233,209	1,737,266	1,828,848	538,783	774,179	13,157,478	
Selected Years	% of U.S.	₩, ~	י ה מ	ω	1.8	1.1	1	2.6 2,	/7	6.	1.2		1.7	1.0	9.	3.1	1.7	1.4	2.5	2.3		.7	1.6	
1001	State1/	6,955	7,513	4,649	13,879	13,768	1	31,890	120	5,219	92,113		35,173	4,281	10,634	43,545	6,490	18,678	21,003	9,810	•	4,136	153,750	
	U.S.1/	852,830	605,136	931,245	784,665	1,272,021	547,071	1,215,144	188,781	577,450	7,520,134		2,119,577	439,801	1,823,643	1,408,056	392,012	1,305,794	833,662	429,870	327,024	610,382	9,689,821	
	Durable Industries	Lumber and Products, Except Furniture	Stone, Clay and Glass Products	Primary Wetal Industries	Fabricated Metal Products	Machinery (Except Electrical)	Electrical Machinery	Transportation Equipment	Instruments and Related Products	Miscellaneous Manufacture	TOTAL	Non-Durable Industries	Food and Kindred Products	Tobacco Manufactures	Textile Mill Products	Apparel and Related Products	Paper and Allied Products	Printing and Publishing Industries	Chemicals and Allied Products	Petroleum and Coal Products	Rubber Products	Leather and Leather Products	TOTAL	

 $\frac{1}{2}$ In thousands of dollars. $\frac{2}{4}$ Less than 0.1%

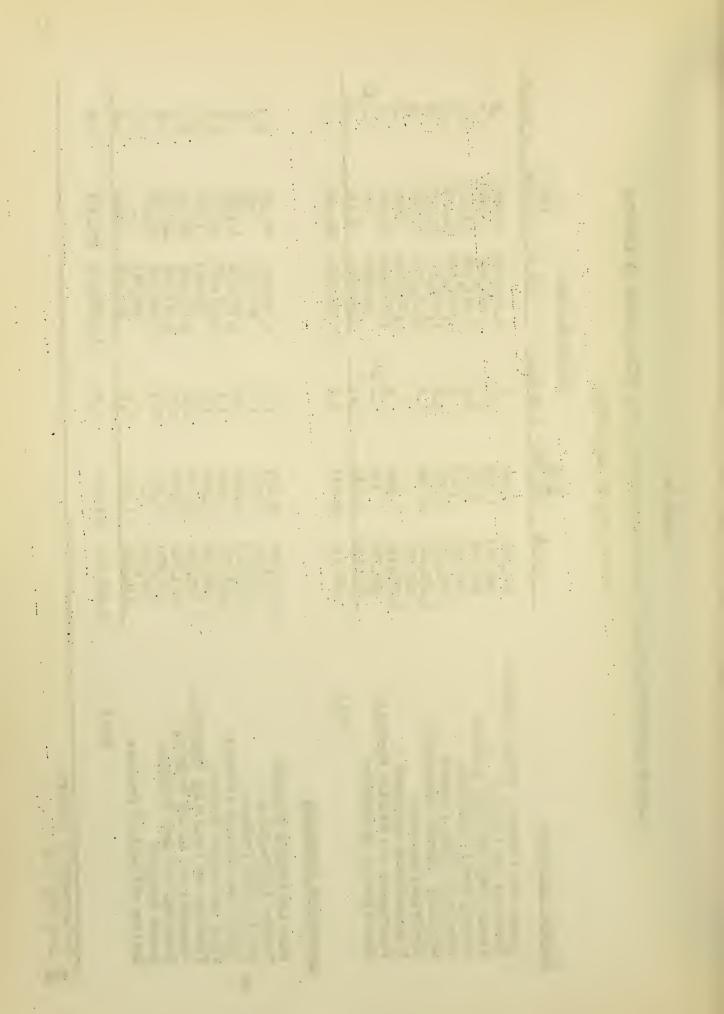


TABLE 24 (Contd.)

VARIOUS MANUFACTURING STATISTICS FOR MARYLAND AND THE UNITED STATES BY INDUSTRY

VALUE ADDED BY MANUFACTURE

15.5.2/ State_1/ % of U.S. 2/ State_1/ % of U.S. 2/ State_1/ % of U.S. 2/ State_2/ % of U.S. 2,513 13 13 13 13 13 13 13 13 13 13 13 13 1			1939	Selecte	Selected Years	7.761	
Except Furniture 731 5,4137 2,513 13,112 as s Products 556 13,473 1.6 2,307 33,472 cites 1,401 30,634 2.2 4,918 832 anothers 2,169 72,451 2.2 4,918 83,150 actrical) 2,0634 2.2 4,918 83,150 actrical) 2,067 11,762 1.2 3,894 34,812 anothers 630 8,172 1.3 2,090 20,500 acture 630 8,172 1.3 2,090 20,500 acture 11,200 199,064 1.8 37,633 552,720 anothers 2,344 2.6 5,344 24,517 anothers 1,818 10,411 6 5,334 24,517 anothers 1,386 35,844 2.6 5,334 24,517 anothers 1,386 35,844 2.6 5,334 24,517 anothers 1,386 35,844 2.6 5,334 24,517 anothers 1,386 21,987 1.3 2,007 11,303 27,088 Products 697 8,739 1.3 1,303 27,088 Products 583 4,757 3.8 1,485 10,422 365,687 anothers 583 4,757 3.7 36,731 585,687	Durable Industries	Ŋ	State1/	of U		State1/	% of U.S.
se Freducts	Lumber and Products, Except Furniture	731	5,413	7.	2,513	13,112	.5
s Products	iture and Fixtures	418	3,959	6.	1,379	10,070	7.
ries 2,169 72,451 3.3 5,775 158,832 lucts 1,401 30,634 2.2 4,918 83,150 2,037 11,312 .6 7,817 44,269 942 11,762 1.2 3,894 34,812 lucts 1,773 40,967 2.3 5,860 150,823 ted Products 630 8,172 1.3 2,090 20,500 ducts 1,290 199,064 1.8 37,633 552,720 stronger 1,818 10,411 2.6 5,334 24,517 Froducts 888 8,292 .9 2,375 25,262 ing Industries 1,819 57,447 3.2 5,360 142,559 roducts 697 8,739 1.3 2,017 18,016 Lucts 1,819 57,447 3.2 5,360 142,559 roducts 697 8,739 1.3 2,017 18,016 Lucts 1,819 57,447 3.2 5,360 142,559 roducts 4,659 1.1 1,303 27,088 Froducts 583 4,757 .8 1,485 10,422 TOTAL 13,197 221,525 1.7 36,731 585,687	ne, Clay and Glass Products	856	13,473	1.6	2,307	33,472	1.5
sucts 1,401 30,634 2.2 4,918 83,150 setrical) 2,037 11,312 .6 7,817 44,269 setrical) 34,211,762 1.2 3,894 34,812 ment 333 40,967 2.3 5,860 150,623 ted Products 8,172 1.3 2,090 20,500 cture 11,290 199,064 1.8 37,633 552,720 ducts 1,386 69,134 2.0 9,022 189,486 s 1,386 35,844 2.6 4,423 93,695 ducts 1,367 21,987 1.2 4,269 54,241 Products 406 4,659 1.1 1,303 27,088 Products <td>ary Metal Industries</td> <td>2,169</td> <td>72,451</td> <td>3.3</td> <td>5,775</td> <td>158,832</td> <td>2,8</td>	ary Metal Industries	2,169	72,451	3.3	5,775	158,832	2,8
ectrical) 2,037 11,3126 7,817 44,269 942 11,762 1.2 3,894 34,812 1,773 40,967 2.3 5,860 150,823 ted Products Froducts 1,773 40,967 2.3 5,860 150,823 ted Products 3,485 69,134 2.0 3,633 552,720 shorts and In 1,818 10,4116 5,334 24,517 Froducts B88 8,2929 6,4423 93,695 and In 1,765 21,987 1.2 4,269 54,241 Froducts Froducts Froducts 1,819 57,447 3.2 5,360 142,559 Froducts 697 8,739 1.3 2,017 18,016 406 4,659 1.1 1,303 27,088 Froducts Froducts TOTAL 13,197 221,525 1.7 36,731 585,687	icated Metal Products	1,401	30,634	2.2	4,918	83,150	1.7
ment 1,773 40,967 2.3 3,894 34,812 5,860 Followers 333 921 2.3 5,860 150,823 5,860 cture 630 8,172 1.3 2,090 20,500 20,500 cture TOTAL 11,290 199,064 1.8 37,633 552,720	inery (Except Electrical)	2,037	11,312	9.	7,817	44,269	9.
ted Products	trical Machinery	942	11,762	1,2	3,894	34,812	٥.
ted Products 333 921 .3 1,080 3,680 cture 630 8,172 1.3 2,090 20,500 cture 11,290 199,064 1.8 37,633 552,720 stockets 1,818 10,411 .6 5,334 24,517 25,262 ing Industries 1,765 21,987 1.2 4,423 93,695 ctucts 1,819 57,447 3.2 4,423 93,695 ctucts 1,819 57,447 3.2 4,423 93,695 ctucts 1,819 57,447 3.2 5,360 142,559 ctucts 697 8,739 1.3 2,017 18,016 tucts 697 8,739 1.3 2,017 18,016 tucts 583 4,757 .8 1,485 10,422 10,422 TOTAL 13,197 221,525 1.7 36,731 585,687	sportation Equipment	1,773	40,967	2.3	5,860	150,823	2,6
ture 630 8,172 1.3 2,090 20,500 ducts 1,485 69,134 2.0 64,3 4,423 93,695 Froducts 1,765 21,987 1.2 4,269 54,241 Products 1,819 57,447 3.2 5,360 142,559 Froducts 697 8,739 1.3 2,017 13,016 Froducts 7,947 3.2 2,017 13,016 Froducts 7,947 3.2 2,017 13,016 Froducts 7,947 3.2 2,017 13,016 Froducts 7,957 1.1 1,303 27,088 Froducts 7,957 1.1 1,303 27,088 Froducts 7,957 1.1 1,303 27,088	ruments and Related Products	333	921	w.	1,080	3,680	٣.
TOTAL 11,290 199,064 1.8 37,633 552,720 ducts ducts 1,818 10,411	ellaneous Manufacture	630	- 4	1.3	2,090	20,500	1.0
ducts 3,485 69,134 2.0 4,3 4,3 4,01 1,818 10,411 6 5,334 24,517 Products I,818 10,411 6 5,334 24,517 I,765 21,987 1.2 4,269 54,241 Products Products 406 4,659 1.1 1,303 27,088 TOTAL 13,197 221,525 1.7 36,731 585,687		11,290	199,064		37,633	552,720	1.5
cts 1,485 69,134 2.0 9,022 189,486 643 401 1,818 10,411 6 6 643 24,517 1,386 35,844 2.6 4,423 93,695 888 8,292 9 9 2,875 25,262 1,765 21,987 1.2 4,269 54,241 1,819 57,447 3.2 5,360 142,559 ts 697 8,739 1.3 2,017 13,016 1,303 27,088 cts 583 4,757 8 1.7 36,731 585,687	Non-Durable Industries						
cts 1,818 10,411 .6 5,334 24,517 1,386 35,844 2.6 4,423 93,695 2,375 25,262 1,765 21,987 1.2 4,269 54,241 1,819 57,447 3.2 5,30 142,559 cts 583 4,757 .8 1,485 10,422 1,485 10,422 TOTAL 13,197 221,525 1.7 36,731 585,687	and Kindred Products	3,485	69,134		9,022	189,486	2.1
tries 10,411 .6 5,34 24,517 88 8,292 .9 2,875 25,262 888 8,292 .9 2,875 25,262 1,765 21,987 1.2 4,269 54,241 597 8,739 1.3 2,017 13,016 4,06 4,659 1.1 1,303 27,088 583 4,757 .8 1,485 10,422 10,422	cco Manufactures	350	255	•	643	707	mm 3/
tries 1,386 35,844 2.6 4,423 93,695 888 8,292 .9 2,875 25,262 2,875 25,262 2,875 25,262 2,875 25,262 2,875 25,262 2,875 25,262 2,875 25,262 2,875 25,262 2,875 25,262 2,975 25,360 142,559 2,975 2,975 2,975 2,975 2,975 2,975 2,975 2,975 2,975 2,8 1,485 10,422 1,485 10,422 2,975 2,21,525 1.7 36,731 585,687	ile Will Products	1,818	10,411	9.	5,334	24,517	ž.
stries 1,765 21,987 1.2 4,269 54,241 s 1,819 57,447 3.2 5,360 142,559 697 8,739 1.3 2,017 18,016 406 4,659 1.1 1,303 27,088 583 4,757 .8 1,485 10,422 IOTAL 13,197 221,525 1.7 36,731 585,687	rel and Related Products	1,386	35,844	2.6	4,423	93,695	2.1
1,765 21,987 1.2 4,269 54,241 1,819 57,447 3.2 5,360 142,559 697 8,739 1.3 2,017 18,016 406 4,659 1.1 1,303 27,088 583 4,757 .8 1,485 10,422 13,197 221,525 1.7 36,731 585,687	r and Allied Products	888	8,292	٥.	2,875	25,262	<u>٠</u>
1,819 57,44.7 3.2 5,360 142,559 697 8,739 1.3 2,017 18,016 406 4,659 1.1 1,303 27,088 583 4,757 .8 1,485 10,422 13,197 221,525 1.7 36,731 585,687	ting and Publishing Industries	1,765	21,987	1.2	4,269	54,241	1.3
ther Products (97 8,739 1.3 2,017 18,016 406 4,659 1.1 1,303 27,088 1.1 583 4,757 .8 1,485 10,422 1.7 36,731 585,687	icals and Allied Products	1,819	57,44.7	3.2	5,360	142,559	2.7
ther Products	oleum and Coal Products	, 697	8,739	1.3	2,017	18,016	٥.
ther Products 583 4,757 .8 1,485 10,422 13,197 221,525 1.7 36,731 585,687	er Products	907	4,659	1.1	1,303	27,088	2.1
13,197 221,525 1.7 36,731 585,687	her and Leather Products	583	4,757	80,	1,485	10,422	-7
	TOTAL	13,197	221,525	1.7	36,731	585,687	1.6

1/ In thousands of dollars. 3/ Less than 0.1%. 2/ In millions of dollars.

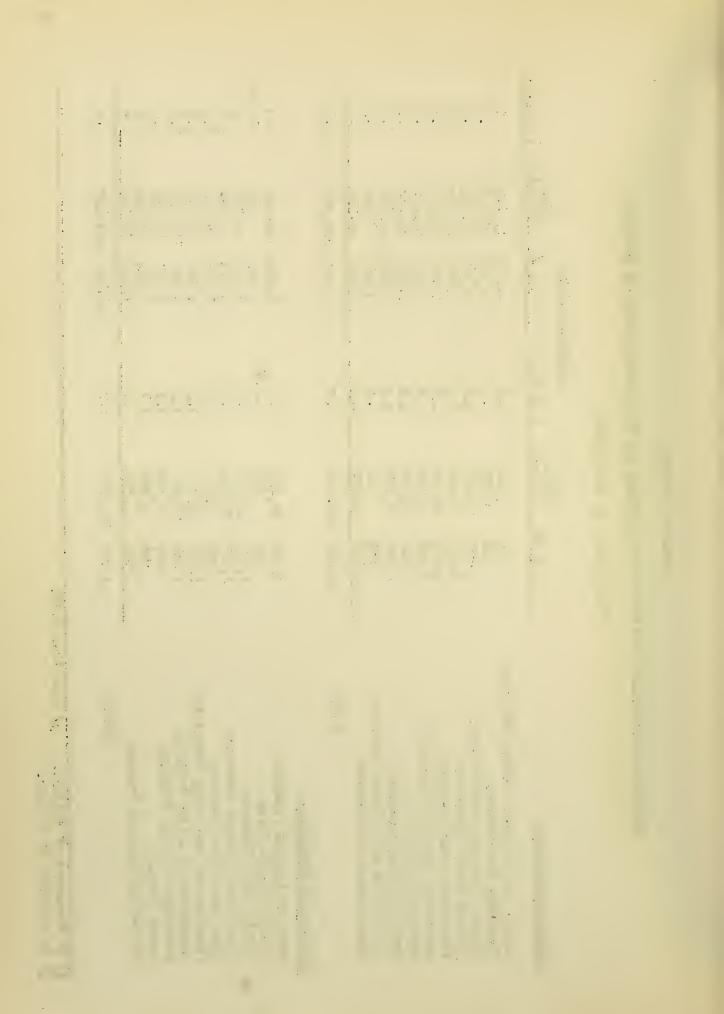


TABLE 25

NUMBER OF ESTABLISHMENTS IN THE UNITED STATES BY STATE

1947 and 1939

	194	47	1939)
STATE	UNITS	RANK	UNITS	RANK
New York	47,701	1	32,672	1
California	17,645	2	11,558	4
Pennsylvania	16,787	3	13,116	2
Illinois	15,982		11,983	3
Ohio	12,299	4 5	9,543	4 2 3 5 7
New Jersey	10,751	6	7,438	7
Massachusetts	10,516	7	8,445	6
Michigan	9,889	8	5,961	9
Texas	7,124	9	5,085	10
Wisconsin	6,980	10	6,334	8
Missouri	5,724	11	4,487	11
Indiana	5,407	12	4,192	12
North Carolina	5,320	13	3,158	14
Georgia	4,752	14	3,054	15
Minnesota	4,567	15	3 , 735	13
Connecticut	3,938	16	2,809	17
Virginia	3,643	17	2,494	20
Washington	3,407	18	2,858	16
Tennessee	3,345	19	2,225	21
Alabama	3,334	20	1,982	22
Oregon	3,075	21	1,903	24
Iowa	2,965	22	2,541	19
MARYLAND	2,825	<u>23</u>	2.712	18
Florida	2,807	24	1,976	23
Louisiana	2,387	25 26	1,779	25 26
Kentucky	2,244	26	1,582	29
Rhode Island	2,213	27 28	1,399	30
South Carolina	2,138 1,981	29	1,300 1,235	31
Mississippi Kansas	1,946	30	1,418	28
Arkansas	1,924	31	1,115	34
Oklahoma	1,740	32	1,530	27
Maine	1,636	33	1,118	33
Colorado	1,603	34	1,219	32
West Virginia	1,602	35	1,094	35
Nebraska	1,343	36	1,093	36
New Hampshire	1,124	37	772	37
Vermont	830	38	659	38
Utah	773	39	549	40
Montana	745	40	552	39
Idaho	664	41	498	41
Arizona	545	42	313	46
South Dakota	494	43	450	42
Delaware	482	44	416	43
New Mexico	432	45	262	47
District of Columbia	4.30		452	, _
North Dakota	362	46	342	45
Wyoming	255	47	400	44
Nevada	125	48	94	48

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TABLE 26

PRODUCTION AND RELATED WORKERS IN THE UNITED STATES BY STATE

1947 and 1939

NUMBER 1/ NUMBER 1/ STATE OF WORKERS RANK OF WORKERS RAI	እፕ <i>ፕፖ</i>
TATE CHEMICAL TO MAINTENANT OF MORE THE CHEMICAL TO MAINTENANT OF MORE THE CHEMICAL	NK
New York 1,426,000 1 949,000	1
Pennsylvania 1,221,000 2 853,000	23457
Ohio 989,000 3 596,000	3
Illinois 953,000 4 591,000	4
Michigan 822,000 5 520,000	5
New Jersey 602,000 6 432,000	
Massachusetts 601,000 7 459,000	6
California 530,000 8 272,000	6 9 8
Indiana 457,000 9 275,000	
	10
	12
	11
	13
	19
	14
	17
	16
	15 20
	18
	23
	21
	22
	26
	25
	27
,	24
	28
0	24
	31
Florida 67,000 30 51,000	30
New Hampshire 66,000 31 55,000	29
Kansas 59,000 32 31,000	33
Arkansas 58,000 33 36,000	32
Colorado 44,000 34 24,000	3 .5
	34
	37
	36
	36
	38
	40
	39
	41
District of Columbia 10,000 8,000	10
	42
	43
	43
	43 44
Nevada 2,000 46 1,000	

^{1/} Average for the year

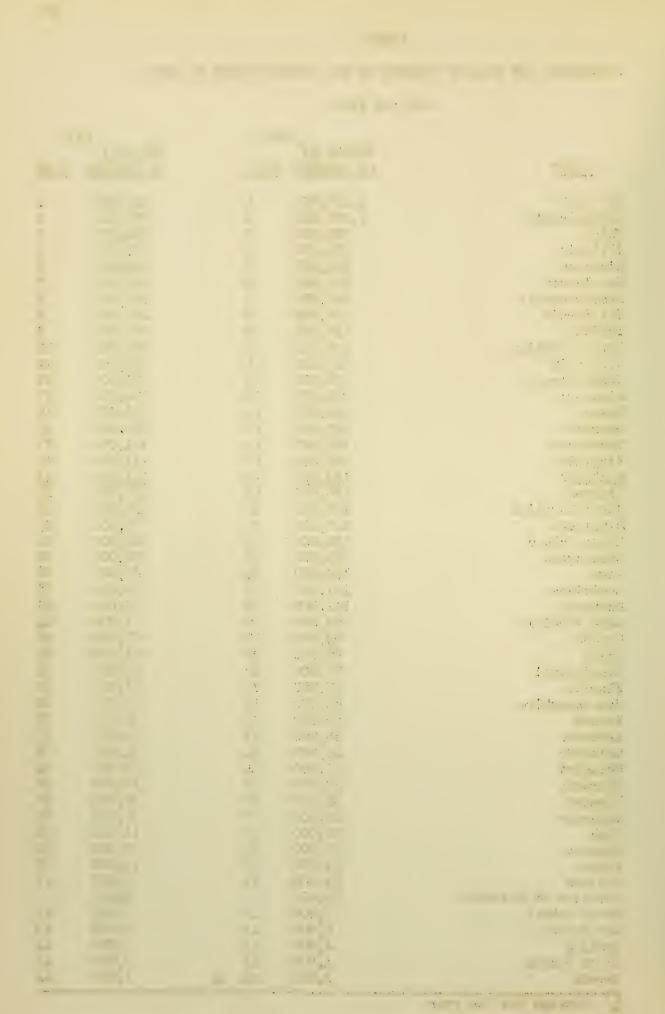


TABLE 27

VALUE ADDED BY MANUFACTURE IN THE UNITED STATES BY STATE

1947 and 1939

186501

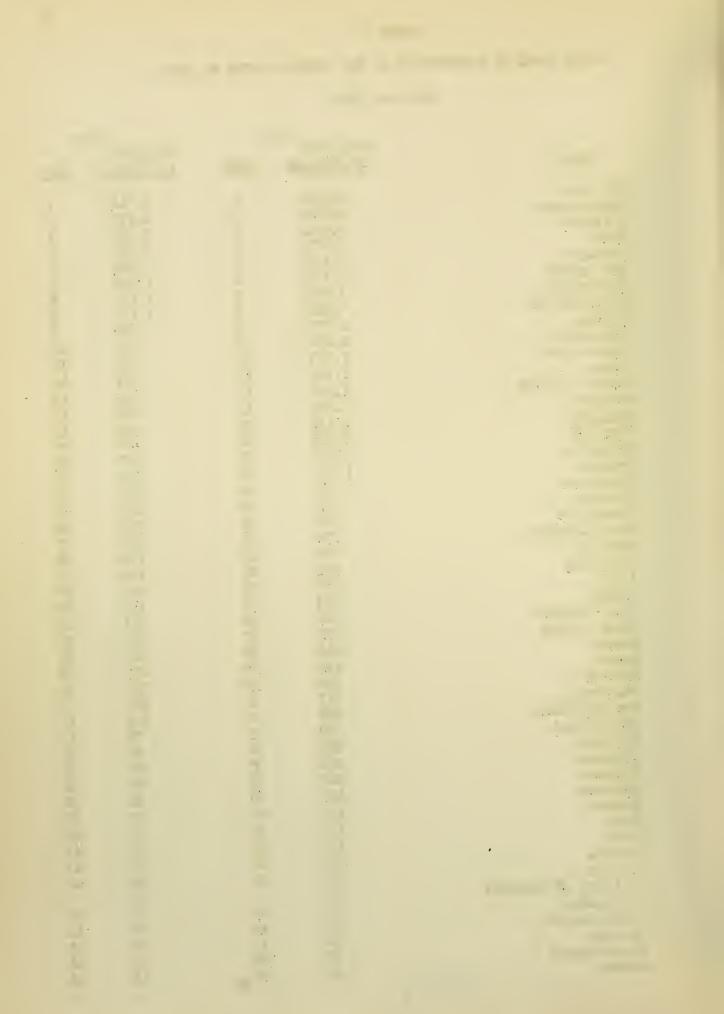


TABLE 28

FIVE LEADING INDUSTRIES IN VALUE ADDED BY MANUFACTURE

MARYLAND, SELECTED YEARS 1921 - 1947

(in thousands of dollars)

	<u>1921</u>	Value <u>Added</u>	1929	Value <u>Addod</u>
1. App	arel and Related Prod	ducts \$ 43,545	Food and Kindred Products	\$ 75,576
2. Foo	d and Kindred Product	cs 35,173	Apparel and Related Products	56,775
3. Tra	nsportation Equipment	31,890	Chemicals and Allied Product	is 44,343
4. Che	micals and Allied Pro	oducts 21,003	Transportion Equipment	32,581
5. Pri	nting and Publishing	Ind. 18,678	Printing and Publishing Ind	. 32,642

<u>1939</u>		<u>1947</u>	
1. Primary Metals Industry	72,451	Food and Kindred Products 189,48	5
2. Food and Kindred Products	69,134	Primary Metals Industry 158,83	2
3. Chemicals and Allied Products	57,447	Transportation Equipment 150,82	3
4. Transportation Equipment	40,967	Chemicals and Allied Products 142,55	9
5. Apparel and Related Products	35,844	Apparel and Related Products 93,69	5



TABLE 29

FIVE LEADING DURABLE GOODS PRODUCING INDUSTRIES IN VALUE ADDED BY MANUFACTURE

MARYLAND, SELECTED YEARS 1921 - 1947

(in thousands of dollars)

	<u>1921</u>	Value <u>Added</u>		Value Added
1.	Transportation Equipment	\$ 31,890	Transportation Equipment \$	32,581
2.	Fabricated Metals Products	13,879	Primary Metals Industry	31,232
3.	Machinery (Except Electrical)	13,768	Fabricated Metal Products	31,069
4.	Primary Metals Industry	7,649	Machinery (Except Electrical)	19,302
5.	Stone, Clay and Glass Products	7,513	Stone, Clay and Glass Products	13,533

	1939		<u>1947</u>	
1.	Primary Metals. Industry	72,451	Primary Metals Industry	158,832
2.	Transportation Equipment	40,967	Transportation Equipment	150,823
3.	Fabricated Metal Products	30,634	Fabricated Metal Products	83,150
4.	Stone, Clay & Glass Products	13,473	Machinery (Except Electrical)	44,269
5.	Electrical Machinery	11,762	Electrical Machinery	34,812

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TABLE 30

FIVE LEADING NON-DURABLE GOODS PRODUCING INDUSTRIES IN VALUE ADDED BY MANUFACTURE

MARYLAND, SELECTED YEARS 1921 - 1947

(in thousands of dollars)

	1921	Value <u>Added</u>	1929	Value Added
1.	Apparel and Related Products	\$ 43,545	Food and Kindred Products	\$ 75,576
2.	Food and Kindred Products	35,173	Apparel and Related Product	s 56,755
3.	Chemicals and Allied Products	21,003	Chemicals and Allied Produc	ets 44,343
4.	Printing and Publishing Ind.	18,678	Printing and Publishing Ind	1. 32,642
5.	Textile Mill Products	10,634	Textile Mill Products	12,378

	1939		<u>1947</u>	
1.	Food and Kindred Products	69,134	Food and Kindred Products	189,486
2.	Chemicals and Allied Products	57,447	Chemicals and Allied Products	142,559
3.	Apparel and Related Products	35,844	Apparel and Related Products	93,695
4.	Printing and Publishing Ind.	21,987	Printing and Publishing Ind.	54,241
5.	Textile Mill Products	10,411	Rubber Products	27,088



TABLE 31

CCMPARISON OF LEADING MAJOR INDUSTRY GROUPS IN MARYLAND WITH VALUE ACCRUING TO THESE GROUPS IN OTHER STATES

1947

Primary Metals

Rank	<u>State</u>	Value Added by Manufacture
1 2 3 4 5 6 7	Pennsylvania Ohio	\$ 1,219,000,000 853,000,000
3	Illinois	558,000,000
4	Indiana	449,000,000
5	Michigan New York	427,000,000
7	Massachusetts	369,000,000 227,000,000
8	New Jersey	216,000,000
9	California	176,000,000
10	Alabama	170,000,000
11	Connecticut	165,000,000
12	MARYLAND	159,000,000
	Chemicals and Allied Products	
1	New Jersey	745,000,000
2	New York	596,000,000
3	Illinois	433,000,000
2 3 4 5 6 7 8	Ohio	347,000,000
5	Pennsylvania Michigan	315,000,000 281,000,000
7	California	280,000,000
8	Indiana	245,000,000
9	Texas	234,000,000
10	Virginia	219,000,000
11	West Virginia	176,000,000
12	Tennessee	1.63,000,000
13 14	Massachusetts MARYLAND	143,000,000 143,000,000
~~	141\LTCT T7\LTCT	147,000,000

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TABLE 31 (Contd.)

Transportation Equipment

Rank	<u>State</u>	Value Added By <u>Manufacture</u>
1 2 3 4 5 6 7 8 9 10 11	Michigan California Ohio Indiana New York Pennsylvania Illinois New Jersey Missouri Wisconsin MARYLAND	\$ 1,938,000,000 554,000,000 483,000,000 442,000,000 314,000,000 253,000,000 222,000,000 173,000,000 166,000,000 151,000,000
	Food and Kindred Products	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Illinois New York California Pennsylvania Ohio Wisconsin New Jersey Texas Missouri Indiana Kentucky Michigan Minnesota Iowa MARYLAND	1,010,000,000 977,000,000 852,000,000 586,000,000 413,000,000 383,000,000 335,000,000 332,000,000 291,000,000 289,000,000 285,000,000 279,000,000 229,000,000 229,000,000
	Apparel and Related Products	
1 2 3 4 5 6 7 8 9	New York Pennsylvania New Jersey Illinois California Massachusetts Missouri Ohio MARYLAND	2,009,000,000 434,000,000 252,000,000 251,000,000 188,000,000 172,000,000 131,000,000 127,000,000 94,000,000

TABLE 32

MARYLAND COMPARED WITH OTHER STATES IN THE MANUFACTURE OF SELECTED PRODUCTS, 1947

(in thousands of dollars)

MEN'S AND BOY'S CLOTHING 1

Rank	<u>State</u>	Value Added By Manufacture	Per cent Of United States			
1 2 3 4 5 6 7	New York Pennsylvania Illinois New Jersey MARYLAND Ohio Massachusetts Others United States	\$ 428,169 235,409 83,036 74,067 <u>71,915</u> 71,035 61,491 453,032 1,478,154	29.0 15.9 5.6 5.0 4.9 4.8 4.2 30.6 100.0			
	SHIPS AND BOATS					
1 2 3 4 5	New York California New Jersey MARYLAND Pennsylvania Others United States	86,016 73,194 70,318 <u>53,000</u> 23,439 280,591 586,558	14.7 12.5 12.0 <u>9.0</u> 4.0 47.8 100.0			
<u>FERTILIZERS</u>						
1	MARYLAND Others United States	21,045 165,556 186,601	11.3 88.7 100.0			
	TIN CANS AN	D OTHER TINWARE				
1 2 3	Illinois California <u>MARYLAND</u> Others United States	60,883 30,823 <u>24,187</u> 116,060 231,953	26.2 13.3 <u>10.4</u> 50.0 100.0			
	BROOMS_A	ND BRUSHES				
1 2 3 4 5 6	New York Massachusetts Illinois New Jersey Ohio MARYLAND Others UNITED STATES	21,518 12,301 7,725 6,875 6,735 6,256 25,878 87,288	24.7 14.1 8.9 7.9 7.7 <u>7.2</u> 29.6 100.0			

 $[\]underline{1}/$ Includes "Men's and Boy's Suits and Coats" and "Men's and Boy's Furnishings".

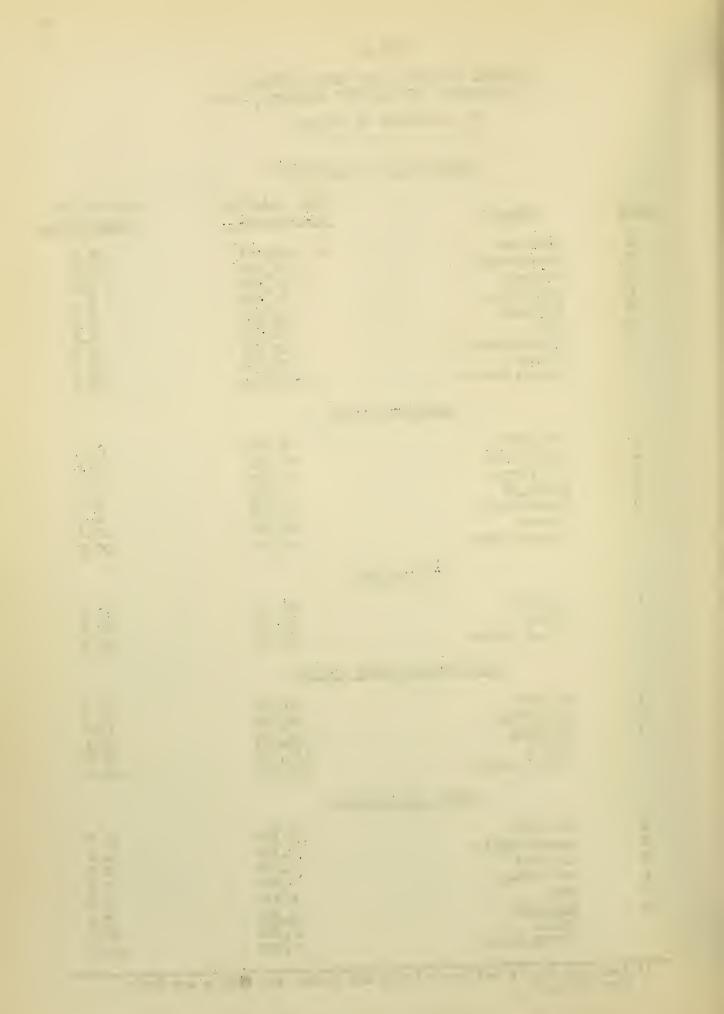
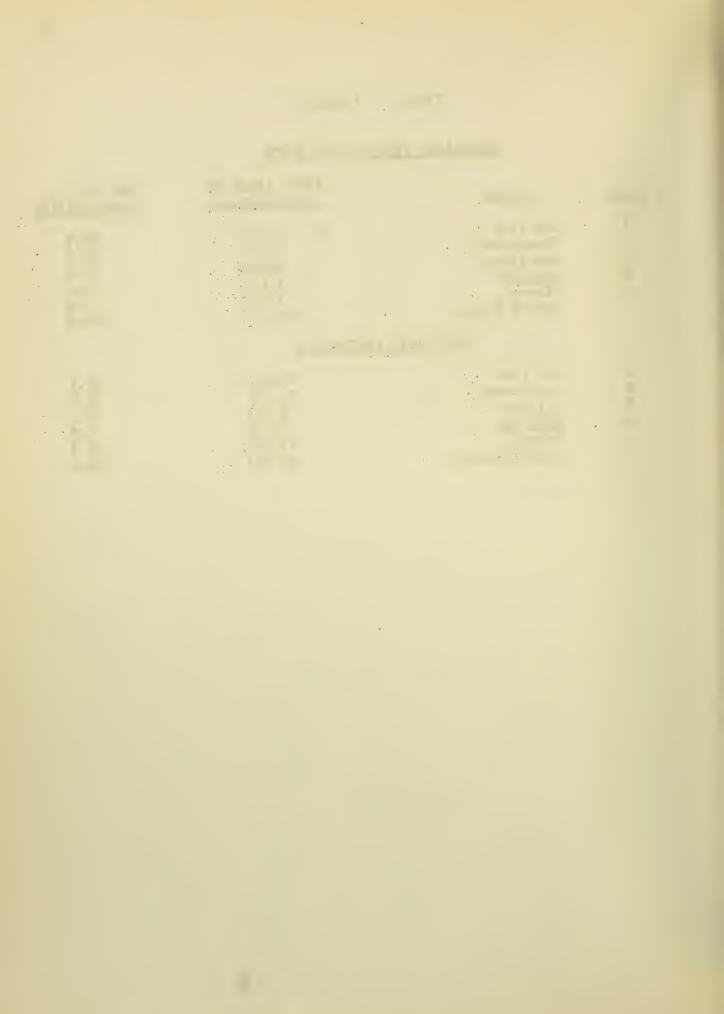


TABLE 32 (Contd.)

UMBRELLAS, PARASOLS AND CANES

Rank	<u>State</u>	Value Added Py <u>Manufacture</u>	Per cent Of United States
1 2 3 4	New York Pennsylvania New Jersey MARYLAND Others United States	\$ 7,010 3,181 2,829 <u>1,106</u> 1,295 15,421	45.5 20.6 18.3 7.2 8.4 100.0
	SCIENTIFIC	<u>INSTRUMENTS</u>	
1 2 3 4	New York New Jersey Illinois MARYLAND Others United States	28,632 24,035 9,483 3,138 17,722 83,010	34.5 29.0 11.4 3.8 21.3 100.0









Date Due





